





ELON



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ELON

UNIVERSITY

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Elon Vol. 115—September 2004 (UPS 076-160) Published annually at
Elon University, Elon, N.C. 27244.

Elon University does not discriminate with regard to race, color, religion, sex, national or ethnic origin, veteran status or disability in the recruitment and admission of students, the recruitment and employment of faculty and staff or the operation of any of its programs. Students with documented disabilities may request in writing reasonable special services and accommodations.

The university's Section 504 coordinator for students and the Title IX coordinator is Dr. Smith Jackson, Alamance 109, 336-278-7220. The university's Section 504 coordinator for applicants and current employees is Mr. Ronald Klepcyk, 314 W. Haggard Ave., 336-278-5560.

Elon University reserves the right to add or drop programs and courses, to institute new requirements when such changes are desirable, and to change the calendar that has been published. Every effort will be made to minimize the inconvenience such changes might create for students.



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Communications with Elon University

Contacting offices at Elon University

Individuals who would like more information about Elon University should contact the offices listed below. All written correspondence should be sent to **Elon University, Elon, NC 27244**. The University's switchboard number is **(336) 278-2000**. E-mail addresses and office fax numbers may be secured through the institution's Web site, <http://www.elon.edu>.

President

- General information

Provost/Vice President for Academic Affairs

- Administrative and student life policies
- Long-range plans
- Academic program and special programs
- Faculty positions

Dean of Admissions and Financial Planning

- Requests for undergraduate applications, catalogs or bulletins
- Scholarships, student loans and student employment

Director of Graduate Admissions

- Requests for applications, catalogs or other information

Vice President for Student Life/Dean of Students

- Housing
- Student life

Vice President for Business, Finance and Technology

- Administrative services
- Payment of student accounts
- Inquiries concerning expenses

Vice President for Institutional Advancement

- Contributions, gifts or bequests
- Estate planning
- Publications/public relations

Director of Career Center

- Career options for students and alumni
- Employment and internships for students and alumni

Registrar

- Requests for transcripts
- Evaluation of transfer credits, IB and AP credits
- Student educational records
- Course registration
- Exit interviews for graduating seniors
- Pre-approval for transfer credit
- VA coordinator

Director of Academic Advising

- Course scheduling
- Academic advising

Dean of International and Special Programs

- Study abroad

Director of Alumni and Parent Relations

- Alumni affairs
- Parent relations

Organization of Academic Units

The institution is organized into one college and three schools. These include areas of learning arranged as follows:

SCHOOLS/COLLEGE/DEPARTMENTS

Provost/Vice President for Academic Affairs

Elon College,
The College of Arts and Sciences

Dean: S. House

African/African-American Studies
Anthropology
Art
Asian/Pacific Studies
Biology
Chemistry
Classical Studies
Computer Information Systems
Computer Science
Criminal Justice
Dance
Engineering
English
Environmental Studies
Fine Arts
French
Geographical Information Systems
Geography
History
Human Services
International Studies
Latin American Studies
Mathematics
Medical Technology

Multimedia Authoring Music
Music Education
Music Theatre
Non-Violence Studies
Philosophy
Physics
Political Science
Professional Writing Studies
Psychology
Public Administration
Religious Studies
Science Education
Sociology
Social Sciences Education
Spanish
Theatre Arts
Theatre Studies
Theatrical Design and Production
Women's Studies/Gender Studies

Professional Schools

The Martha And Spencer Love School of Business

Dean: Burbridge

Accounting and Finance
Business Administration
Economics
MBA

School of Education

Dean: Dillashaw

Athletic Training
Education
Exercise Sports Science
Health Education
Leisure/Sport Management
Military Science
Physical Education
DPT
M.Ed.

School of Communications

Dean: Parsons

Communications
Journalism

Elon Web-Based Information

The Web site listed below provides current information on Elon's programs and services that are not described in this catalog. All sites may be reached through <http://www.elon.edu/catalogresources/>.

Additional information about Elon may be found at <http://www.elon.edu>.

Campus Facilities

- Campus Tour
- Campus Residence Halls
- Dining Facilities
- Belk Library
- Moseley Center
- Health Services
- Counseling Services
- Athletics Facilities

Admissions

- Admissions Requirements
- Application Forms
- Early Decision Plan
- Transfer Credit
- High School Credit Bank Program
- International Student Admission
- Advanced Placement Examination
- International Baccalaureate
- College-Level Examination Program
- Tuition Exchange

Financial Aid Opportunities

- Cost and Financial Aid
- Need-based Assistance
- Assistance not Based on Need
- Loan Options
- Applying for Financial Aid
- Payment Options
- Endowed Scholarships

Academic Fellows Programs Student Life

- Overview of Student Services
- Campus Housing
- New Student Orientation
- Student Government Association
- Judicial System
- Campus Safety and Police
- Cultural Life

- Religious Life
- Multicultural Affairs
- Service Learning
- Organizations
- Activities
- Communications Media
- Campus Recreation

Academic Support Services

- Academic Advising
- Disabilities Services
- Career Center
- Peer Tutoring
- Writing Center
- El Centro de Español
- Elon 101

Technology Services

- Computer Resources
- Television Services
- Media Services

Faculty/Staff/Student Directory

Traditional Events at Elon

- Chapel
- College Coffee
- Convocation for Honors
- Family Weekend
- Graduation Celebrations
- Greek Week
- Holiday Celebration
- Homecoming
- New Student Convocation
- SURF/Assessment Day
- "Turning 21"

Graduate Programs

- MBA
- M.Ed.
- MPT/DPT

Calendar

Fall Semester 2004

August 27	Fri.	Orientation
August 28	Sat.	Orientation; Registration
August 30	Mon.	Drop-Add Day
August 31	Tues.	Classes Begin
September 6	Mon.	Last Day for Late Registration
October 15	Fri.	Mid-Semester Reports Due at 3:00 p.m.
October 15	Fri.	Fall Break Begins at 2:30 p.m.
October 20	Wed.	Fall Break Ends at 8:00 a.m.
October 22	Fri.	Last Day for Dropping Course with "W"
November 1	Mon.	Last Day to Remove Incomplete "I" and "NR" Grades
November 3	Wed.	Preregistration Begins for Winter Term & Spring Semester 2005
November 23	Tues.	Thanksgiving Holiday Begins Following Evening Classes
November 29	Mon.	Thanksgiving Holiday Ends at 8:00 a.m.
December 7	Tues.	Classes End
December 8	Wed.	Reading Day (Evening Exams Begin)
December 9-14	(Thurs.-Tues.)	Examinations
December 16	Thurs.	Grades Due at 10:00 a.m.

Winter Term 2005

January 3	Mon.	Registration
January 4	Tues.	Classes Begin
January 5	Wed.	Last Day for Late Registration
January 13	Thurs.	Last Day for Dropping Course with "W"
January 17	Mon.	Martin Luther King Jr. Holiday
January 24	Mon.	Classes End

January 25	Tues.	Examinations
January 27	Thurs.	Grades Due at 10:00 a.m.

Spring Semester 2005

January 31	Mon.	Registration
February 1	Tues.	Classes Begin
February 7	Mon.	Last Day for Late Registration
March 18	Fri.	Mid-Semester Reports Due at 3:00 p.m.
March 18	Fri.	Spring Break Begins at 2:30 p.m.
March 28	Mon.	Easter Holiday
March 29	Tues.	Easter Holiday/Spring Break Ends at 8:00 a.m.
March 30	Wed.	Last Day for Dropping Course with "W"
April 5	Tues.	Assessment Day/SURF
April 8	Fri.	Last Day to Remove Incomplete "I" and "NR" Grades
April 11	Mon.	Preregistration Begins for Summer and Fall 2005
May 10	Tues.	Classes End
May 11	Wed.	Reading Day (Evening Exams Begin)
May 12-17	(Thurs.-Tues.)	Examinations
May 18	Wed.	Senior Grades Due at 9:00 a.m.
May 20	Fri.	Grades Due at 10:00 a.m.
May 21	Sat.	Commencement; Last Day of School

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Summer School 2005

Summer Session One

May 31 - Registration
 June 1 - First Class Day
 June 30 - Last Class Day
 July 1 - Final Exams

Summer Session Two

July 7 - Registration
 July 8 - First Class Day
 July 28 - Last Class Day
 July 29 - Final Exams

Facts About Elon

Overview

Elon University is a premier small, private university on a campus of 575 acres in the town of Elon, North Carolina. Elon is the third largest of the 36 private colleges and universities in the state. For additional information about Elon, go to www.elon.edu/e-net.

Location

Located in the Piedmont Triad area, 20 minutes east of Greensboro and 30 minutes northwest of Durham and Chapel Hill

Exit 141 on Interstate 85/40

Accessible to airports (Raleigh/Durham and Greensboro) and Amtrak (Burlington)

Visitor Information www.elon.edu/admissions/visit.asp

History

Opened in 1889 as Elon College; affiliated with United Church of Christ

Sustained a major fire in 1923 and was rebuilt 1923-1926

Recent construction includes Belk Library, Rhodes Stadium, Academic Pavilions, Belk Track and White Field

Became Elon University June 1, 2001

For Elon history, see: <http://www.elon.edu/catalogresources>

Students

Fall 2003 enrollment totaled 4,584 students, including 153 graduate students

70 percent of students from out of state

Students are from 47 states and 36 foreign countries

Faculty

252 Full-time faculty in 2003-04

85 percent of faculty have terminal degree

Student-to-faculty ratio is 15:1

Programs

132 credit hours required for graduation

Most courses are 4 credit hours

50 majors available

Average class size is 23 students

Co-curricular programs in internships, study abroad, undergraduate research, leadership and community service

Primarily daytime classes with limited evening offerings

Undergraduate Calendar

Fall semester: four months, late August to mid-December

Winter term: four-week January term

Spring semester: four months, early February to mid-May

Summer: Session 1 in June, Session 2 in July

Accreditation

Elon University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097; telephone number: 404-679-4501) to award bachelor's and master's degrees and the doctor of physical therapy degree.

Elon's teacher education program is accredited by the National Council for Accreditation of Teacher Education and by the North Carolina State Department of Public Instruction.

Elon's Martha and Spencer Love School of Business is accredited by AACSB-International.

Elon's physical therapy education program is accredited by the Council on Accreditation for Physical Therapy Education.

Elon University is included on the list of colleges and universities approved by the American Chemical Society. Students satisfying the requirements listed for the BS degree with a major in chemistry will be ACS certified upon graduation.

The university is a member of the following associations:

- The American Council of Education
- The American Association for Higher Education
- The American Association of Colleges for Teacher Education
- The Association of American Colleges
- The Commission of Accreditation of Allied Health Education Programs
- The North Carolina Association of Colleges and Universities
- North Carolina Independent Colleges and Universities
- The National Association of Independent Colleges and Universities
- The European Council of International Schools
- Association of Independent Liberal Arts Colleges for Teacher Education
- National Council for Accreditation of Teacher Education
- Independent College Fund of North Carolina
- The Council of Independent Colleges
- The Council for Higher Education of the United Church of Christ
- The International Association for Management Education
- Associated New American Colleges
- Council on Accreditation of Allied Health Education Programs



Admissions

Freshman Applications

Elon University applications are available from many high school guidance offices, online at www.elon.edu or directly from the Office of Admissions, 100 Campus Drive, Elon, NC 27244. Telephone: 800-334-8448 or 336-278-3566. E-mail: admissions@elon.edu. Elon also accepts the Common Application.

Freshman Application Procedures

Freshman applicants must submit:

1. Completed and signed application
2. \$40 application fee
3. High school transcript
4. SAT I or ACT test scores
5. Counselor Evaluation Form

The SAT or ACT should be taken late in the junior year and again early in the fall of the senior year. In making admissions decisions, Elon will combine the highest math and verbal scores from all test scores submitted. It is important to ensure that we receive all test scores that are available.

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Freshman Application Deadline

	Application Deadline	Notification Date	Enrollment Deposit Date
Early Decision (binding)	November 1★	December 1	January 10, non-refundable
Early Action (non-binding)	November 10★	December 20	May 1
Final Freshman Deadline	January 10★	March 15	May 1
Deadline for Fellows application	January 10★★		

***All deadlines are postmark dates. All materials needed to complete your application must be postmarked by the stated deadline.**

****Students who are applying to the Fellows programs must submit a completed freshman application and the Fellows application by the January 10 deadline. Students selected for the Fellows competition will be notified of their admissions decision at the time the Fellows invitation is extended in early February.**

Tuition Exchange applicants must submit a completed application and the letter of institutional authorization no later than the November 1 deadline.

The Early Decision Plan

Application Deadline: November 1

Notification Date: December 1

Students whose first choice is Elon are encouraged to apply Early Decision. The Early Decision agreement is a binding agreement that a student will enroll at Elon if accepted. Students accepted for Early Decision agree to withdraw applications from all other colleges and submit a nonrefundable U.S. \$300 deposit to Elon by January 10.

There are several advantages to being accepted under the Early Decision plan: applications will be read beginning October 1

- the opportunity to attend the first Spring Orientation Weekend
- priority consideration for housing and registration
- an early financial aid estimate

Early Action Plan

Application Deadline: November 10

Notification date: December 20

Students who would like an early answer on their application status may apply Early Action. Early Action is non-binding, and students are permitted to apply to other schools as well as Elon.

Regular Decision Plan and Fellows Application Deadline

Application Deadline: January 10

Notification date: March 15

This is the final application deadline for freshman admissions. Applications received after this date will be considered on a space-available basis.

The Fellows application must be submitted by January 10. Students selected for the Fellows competition will be notified of their admissions decision at the time the Fellows invitation is extended in early February.

Freshman Admission Requirements

Admission to Elon is competitive. Elon seeks students from a variety of backgrounds with strong academic preparation who can contribute to and benefit from the university's many scholastic and extracurricular programs.

The most important factors in the admissions decision are the academic record (including courses taken and grades attained) and standardized test scores. Other factors which may be considered include leadership potential, extracurricular and service-related activities, special talents, relationship with the university and the ability to contribute positively to the campus community. Other than the Counselor Evaluation Form, recommendations are not required but will be taken into consideration if submitted.

A student's high school academic record is a primary factor in every admissions decision. In general, students should have taken a rigorous selection of col-

lege preparatory or higher-level courses throughout their four years of high school. The most promising candidates for admission will have demonstrated solid achievement in five or more academic subjects each year. Minimum preparation must include:

1. English.....4 units (required)
2. Math3 units required, 4 recommended
(Algebra I & II and Geometry are required)
3. Science.....3 or more units, including at least one lab science
4. Social Studies3 or more units, including U.S. History
5. Foreign Language2 units required, 3 recommended
(Students who have not completed at least two units in one foreign language must complete a 101-level foreign language course at Elon.)

Freshman Admission Notification

Elon operates on a deadline admissions plan. Applicants will be notified of a decision according to the timetable listed above. Some applicants will be asked to submit new information to strengthen their chances for admission, usually with new SAT or ACT scores and/or first semester grades. All the files of the students who are asked to submit first semester grades will be reconsidered with the January 10 application pool.

All offers of admission are contingent upon satisfactory completion of the senior year courses. Elon reserves the right to withdraw an acceptance if the final grades are unsatisfactory.

Transfer Admission

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Transfer students are admitted to Elon University based on their academic record at the institution from which they are transferring. In order to graduate, one full academic year of study (at least 33 semester hours) must be completed at Elon, including the last term before graduation.

Transfer students are required to have 24 transferable college-level credits demonstrating a record of consistent success and a minimum cumulative GPA of 2.5. In addition, the student must be eligible to return to the last institution attended and be recommended by college or university officials.

In order to be considered for transfer admission a student must:

1. Submit a completed and signed Application for Transfer Admission with the \$40 application fee.
2. Have official transcripts sent from all two-year or four-year institutions attended.
3. Have a Dean's Evaluation Form completed by the dean of the last institution attended verifying eligibility. This form is not required if the student has received an associate degree.
4. Have an official final high school transcript and SAT or ACT scores sent. The SAT/ACT requirement may be waived for some advanced students or nontraditional students who did not take the test while in high school.

Transfer Admission Deadlines

The priority deadline for transfer applications for the fall semester is June 1; for spring semester, December 1. After these dates applications will be considered on a space-available basis. (Students seeking housing on campus will want to apply as soon as possible, as housing for transfers can become limited.)

Transfer Credit

Students earn credit for college-level courses taken through college parallel programs at accredited junior colleges or community colleges and for courses taken at accredited four-year colleges and universities. Transcripts are evaluated and credit is awarded on a course-by-course basis after the student has been accepted for admission. The freshman course, GST 110 Global Studies, is waived for students transferring 18 hours or more. This applies to transfer students only, not freshmen entering college for the first time.

No more than 65 semester hours of credit will be allowed from two-year institutions. No credit is allowed for courses with a grade lower than "C-." Credit will not be given for courses taken while a student is under academic suspension.

International Student Admission

Elon University values intercultural experiences in education. International students from nearly 40 countries attend Elon each year. Prospective students from outside the United States can obtain admissions packets from the Office of Admissions. International students must submit the freshman application with a nonrefundable U.S. \$40 application fee, original secondary school transcripts and certified translations, official SAT or ACT scores, personal statement and, for students attending American and International Schools abroad, a completed Counselor Evaluation Form.

In addition to the SAT or ACT, the Test of English as a Foreign Language (TOEFL) is required unless English is the student's native language or the language of instruction. Presidential scholarships are available for students with outstanding academic records and SAT scores.

International students may apply online at Elon's Web site, www.elon.edu. Applications and documentation should be submitted as early as possible since it may take several months to receive and process forms from outside the United States. International inquiries may be directed to the office by calling 336-278-3566; fax is 336-278-7699; e-mail address is admissions@elon.edu. For complete information on international admissions, visit www.elon.edu/international.

Tuition Exchange

Elon University is a member of Tuition Exchange, Inc. For information about the Elon University tuition exchange policy, contact the Office of Admissions and Financial Planning, 800-334-8448, or visit www.elon.edu/catalogresources.

Enrollment Deposit for All Resident Students

To complete acceptance and reserve a room for the fall semester, an enrollment deposit of \$300 is recommended within one month of acceptance but no

later than May 1 for fall semester enrollment. (Exception: the nonrefundable \$300 deposit for Early Decision students is due no later than January 10.) For students who are accepted after May 1, the enrollment deposit is due within one week. Room assignments are made according to the date of deposit, with Early Decision students assigned first. For the spring semester, an enrollment deposit of \$300 is recommended within one month of acceptance but no later than January 1.

Refund Policy

The fall semester enrollment deposit may be refunded in full by notifying the Office of Admissions in writing prior to May 1. After that date \$150 is refundable until June 15. Early Decision and spring semester enrollment deposits are not refundable. Exceptions to this policy must be authorized by the Dean of Admissions and Financial Planning and are generally limited to those students for whom Elon is not able to meet demonstrated financial need.

Enrollment Deposit for All Commuter Students

To complete admission for the fall semester, an enrollment deposit of \$150 is requested within one month of acceptance but no later than May 1. For students accepted after May 1, the enrollment deposit is due within one week. The deposit is not refundable after May 1. For the spring semester, the \$150 enrollment deposit is due no later than January 1 and is not refundable.

Residency Requirement

Elon University has a two-year residency requirement. All first- and second-year students are required to live on campus except those who are living with their parent(s), nontraditional students and transfer students who have been out of high school one year or more. Priority for housing assignments is based on the date the enrollment deposit is received by Elon.

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Special Students

The university admits a limited number of special students who are not working toward degrees at Elon University. Special students include:

- Persons taking only private music instruction in the Department of Performing Arts. Such applicants are admitted if instructors are able to schedule lessons for them.
- High school graduates taking classes of special interest. Persons out of high school less than two years are required to submit a copy of their high school transcript and SAT/ACT scores.
- Visiting students from other colleges attending summer and winter terms.
- College graduates interested in further study at Elon. Such applicants are admitted if they fulfill requirements for admission to the desired courses.
- College graduates working toward teacher licensure or relicensure. (Official college transcript required with application.)
- High school students taking classes on the Elon campus during their senior year. Credit for this work is generally transferable to other institutions. (Credit Bank application required.)

- Persons wishing to audit courses without doing the assigned preparation or receiving credit.

Special students may register for no more than eight hours per semester without approval of the Assistant Vice President of Academic Affairs.

Advanced Placement Examination

Students earning a score of four or better in the Advanced Placement Tests of the College Entrance Examination Board taken in high school may receive credit in the following fields: art, biology, chemistry, computer science, economics, English, environmental studies, French, German, geography, history, music, physics, political science, psychology, Spanish and statistics. A three or higher is required in mathematics. Official scores should be sent to the Office of Admissions.

International Baccalaureate

Students earning a score of four to seven on higher level exams will receive at least four semester hours of credit. No credit is awarded for subjects passed at the standard level of IB. Scores should be sent to the Office of Admissions.

College-Level Examination Program (CLEP)

The College-Level Examination Program (CLEP) of the College Board enables students to earn college credit by examination. Students desiring credit by examination must earn a scaled score of 50 on the General Examinations and the Subject Area Examinations. Credit may be awarded in the following areas: composition and literature, foreign language, history and social sciences, science and mathematics. Scores should be sent to the Office of Admissions.

14 *Department Examination*

Students may contact the chair of the department for details concerning the process of credit through examination at Elon in areas not covered above. The cost for each examination is \$544.

Credit for Veterans

Veterans entering Elon may transfer certified credits from various areas:

- Military personnel on active duty who wish to submit CLEP credits should see their Education Officers concerning CLEP tests or write to USAFI, Madison, Wisconsin.
- Work from other accredited postsecondary institutions may be accepted.
- Students with one year of active duty in military service will receive credit for the physical education requirement by bringing a copy of their DD-214 Form to the Registrar's Office for verification.

Finances and Financial Aid

General Costs

The cost of attending Elon University is purposely held at a reasonable level. The chart on page 16 gives the particular charges for resident and commuter students. Please note that there are special tuition rates for part-time students.

During registration, Student Government Association and health service fees are collected from all students enrolled for nine or more semester hours.

Costs Covered by Tuition

Included in the tuition fees are costs of registration, use of the library and recreational facilities, admission to home athletic events, admission to campus cultural events, student publications, post office box, regular laboratory fees and 12 to 18 semester hours of work, inclusive each semester.

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The tuition, fees and estimated book expenses do not include fees for special courses and special laboratory work which depend on the course of study undertaken. Personal expenses vary with the individual student. For the student who must earn money toward his/her university expenses, a number of work opportunities are available through the Career Center and the Human Resources Office.

The Meal Plan

All resident students are required to purchase a meal plan. The cost of the meal plans is established each spring, and students are notified in the summer before payments are due. Students living off-campus are also welcome to purchase a meal plan, use the Phoenix Card (a debit card for use in dining halls, the Campus Shop and select off-campus locations) or purchase individual meals in any of the six campus dining locations.

Book Expenses

The estimated cost of textbooks is \$900 for the academic year, including \$325 needed for purchases from the campus bookstore at the opening of fall semester.

Room Change Charge

Students changing rooms without permission of the Director of Residence Life are charged for both rooms.

Expenses for the 2004-2005 Academic Year

Full-Time Enrollment/Day Students (12-18 hours)

	Fall * Semester	Winter Term	Spring Semester
Tuition	\$8,655.00	\$544.00/hour	\$8,655.00
Room – Main Campus			
Double	1,468.00	391.00	1,468.00
Single	1,905.00	508.00	1,905.00
(Double as single)+	2,052.00	547.00	2,052.00
Room – Danieley Center			
10 person flat	1,468.00	391.00	1,468.00
8 person flat	1,699.00	453.00	1,699.00
Board** (winter term billed with fall semester)			
5 Meal Plan	1,130.00	238.00	892.00
19 Meal Plan	1,718.00	362.00	1,356.00
15 Meal Plan	1,772.00	374.00	1,398.00
Unlimited	1,929.00	407.00	1,522.00
Student Government	70.00		70.00
Health Service	52.50		52.50
Overload***	544.00/hour	544.00/hour	544.00/hour
Security Deposit (refundable, applies to residence hall students only)			100.00

* Students enrolled full time for either fall or spring semester (within the same academic school year) are not charged for winter term room or tuition if no overload exists in winter term. Students enrolled full-time fall semester but not attending winter term will be eligible for a credit for winter term board.

** 5 Meal Plan (Green) – 5 dining hall meals per week and \$325 meal dollar balance each semester (fall and spring) and \$150 meal dollar balance winter term.

19 Meal Plan (Gold) – 19 dining hall meals per week and \$60 meal dollar balance each semester (fall and spring) and \$30 meal dollar balance winter term.

15 Meal Plan (Maroon) – 15 dining hall meals per week and \$110 meal dollar balance each semester (fall and spring) and \$55 meal dollar balance winter term.

Unlimited Meal Plan (Platinum) – Unlimited dining hall meals per week and \$70 meal dollar balance each semester (fall and spring) and \$35 meal dollar balance winter term.

Meal Plan Requirements:

Freshmen: Required to have at least the 15 meal plan in all residence halls, Danieley Center K and Academic Village.

Sophomores: Required to have at least the 15 meal plan in all residence halls, Danieley Center K, Greek houses and Academic Village. Students in university apartments must select at least the 5 meal plan.

Juniors: Required to have at least the 15 meal plan in all residence halls. Students in Danieley Center K, Greek houses and Academic Village must select at least the 5 meal plan. Students in apartments are encouraged to select a meal plan.

Seniors: Required to have at least the 15 meal plan in all residence halls. Students in Danieley Center

K, Greek houses and Academic Village must select at least the 5 meal plan. Students in apartments are encouraged to select a meal plan.

Phoenix Card balances from meal plans are restricted for meals and food purchases only and is not refundable if not used. Meal plan money may not be used in the Campus Shop. Authorized changes in meal plans are permitted through the second week of fall and spring semesters. Any difference in price must be paid at the time of the change

***More than 18 hours in fall or spring; more than four hours in winter.

+ Provided space is available and approval given by Residence Life Office

Part-Time Enrollment/Day Students and All Evening School

Tuition: 1-11 hours \$544/hour

Day students enrolled for 9-11 hours must pay SGA and health fees.

Evening students can enroll in no more than four semester hours in the day program.

Graduate Programs

MBA Tuition: \$371.00/hour

M.Ed. Tuition: \$305.00/hour

DPT/MPT Tuition: (Jan.-June, \$12,490.00; July-Dec. \$8,922.00)
\$21,412.00/year

Summer School 2005

	<i>Tuition</i>	<i>Room (Single)</i>	<i>Room (Double)</i>
Undergraduate	\$268/hour	\$446	\$354
MBA	\$371/hour		
M.Ed.	\$305/hour		

Special/Optional Fees (No Refund After Second Week of Semester)

Applied music lessons:

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Each one semester hour credit or audit for nonmusic majors	\$270/credit hour
First special instruction class for music majors (for the first class and then the regular rate for every class thereafter)	\$155/credit hour
Each one semester hour credit or audit for music majors taking second or additional lessons	\$270/credit hour

The deadline for refunds for art material fees will be the second week of the semester. No refunds will be given for materials that have been opened or used in any portion.

Charges for other courses with special fees are listed in the catalog and/or the course schedule.

Graduation Fees

Bachelor's Degree	\$40
Graduate's Degree	\$50

Miscellaneous Fees

Auditing per course	\$125
Late registration/Re-enrollment during term	\$25
Late payment	\$30
Transcripts	\$5
Security deposit (residence hall damage and key return, refundable upon completion of housing contract)	\$100
Examination for course credit	\$544
Automobile registration	\$15-\$55
Replace Phoenix Card	\$25
Returned check fine	\$20

A student's grade or graduate's diploma and transcripts will be withheld until his/her financial obligations to the university are settled. A student cannot register for further course work until financial obligations to the university are settled.

Refunds

Academic Year— Fall and Spring Semester*

Undergraduate, MBA, M.Ed.

Tuition and fees are refunded as follows:

- Students will receive refunds on a pro rata basis during the first eight weeks of the semester. Following is a table of pro rata charges:
1st week pro rata charge 5%
2nd week pro rata charge 10%
3rd week pro rata charge 40%
4th week pro rata charge 60%
5th week through 8th week pro rata charge 75%
9th week — no refund
- Room and board is refunded on a weekly pro rata basis.

Exception to the above policy is as follows:

- Medical withdrawals will be handled on a case-by-case basis.

The effective date of withdrawal is determined by the Office of the Associate Dean of Student Life. Students and parents who believe circumstances warrant an exception from the published policy must appeal to Mr. Gerald Whittington, Vice-President for Business and Finance, Alamance 113.

*Upon withdrawal, meal plan refunds are prorated.

Doctor/Master of Physical Therapy Program*

Students will receive refunds on a pro rata basis during the first 13 weeks of each half of the academic year. The first half begins with the first day of classes in January. The second half begins with the first day of classes in July. Following is a table of pro rata charges:

Start of the period through the end of 3rd week.....	10% charge
4th week through the end of the 7th week	50% charge
8th week through the end of the 13th week	75% charge
14th week.....	no refund

The effective date of withdrawal is determined by the Dean of Student Life.

Students who believe circumstances warrant an exception from the published policy must appeal to Mr. Gerald Whittington, Vice President of Business and Finance, Alamance 113.

Unpaid charges owed by the student will be deducted from the calculated refund.

The acceptance deposit is nonrefundable.

Exception to the Institutional Policy

Medical withdrawals will be handled on a case-by-case basis.

*Upon withdrawal, meal plan refunds are prorated.

Winter Term and Summer School*

Students who end enrollment during the second or third day of classes of winter term will receive a 90 percent refund of tuition and room charges. Students who end enrollment during the fourth or fifth day of classes of winter term will receive a 50 percent refund of tuition and room charges. Students who end enrollment during the sixth or seventh day will receive a 25 percent refund of tuition and room charges. There will be no refund after the seventh day of classes.

Students who end enrollment during the second or third day of classes in Summer I will receive a 90 percent refund of tuition and room charges. Students who end enrollment on the fourth, fifth or sixth day of Summer I will receive a 50 percent refund of tuition and room charges. Students who end enrollment on the seventh through tenth day of Summer I will receive a 25 percent refund of tuition and room charges. There will be no refund after the tenth day of classes.

Students who end enrollment on the second or third day of classes of Summer II will receive a 90 percent refund of tuition and room charges. Students who end enrollment on the fourth day of classes of Summer II will receive a 50 percent refund of tuition and room charges. Students who end enrollment on the fifth, sixth and seventh day of classes in Summer II will receive a 25 percent refund of tuition and room charges. There will be no refund after the seventh day of classes.

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The refund policy for MBA and M.Ed. is listed in the catalog for those programs.

*Upon withdrawal, meal plan refunds are prorated.

Notice of Withdrawal

In order to be eligible for a refund upon withdrawal, a student must notify the Associate Dean of Student Life in writing of his/her intentions. The student must also check out with the financial planning and bursar's offices. Refunds are calculated as of the date of withdrawal specified by the Dean of Student Life.

Financial Aid

Elon University is committed to assisting eligible students in securing the necessary funds for a college education. To the extent possible, eligible students receive aid through careful planning and various forms of financial assistance.

In order to receive any type of university, state or federal aid, students must demonstrate satisfactory academic progress toward the completion of degree requirements. No financial aid is offered until an applicant has been accepted for admission to Elon University; however, prospective freshmen should not wait to be accepted before applying for aid.

Financial aid programs vary by source, eligibility criteria and application procedures. While every effort is made to meet each student's full need, that is not always possible, due to a limited amount of aid available. Students will be offered a financial aid "package" which is an award consisting of one or more of the following types of aid: scholarships, grants, low-interest loans and campus employment. Scholarships and grants are "gift assistance" which do not have to be repaid while loans and work are referred to as "self-help." Financial aid packages may consist of all self-help or a combination of self-help and gift assistance. Applying early for financial aid improves chances of receiving the maximum aid for which the student is eligible.

Financial Assistance Based on Need

There are a variety of need-based financial aid programs. The federal government, some states (including North Carolina) and the university itself offer grant, loan and work-study programs. Grants are funds which do not have to be repaid; loans to students are generally repayable only after the student is no longer enrolled; and work-study funds are earned through employment on campus. Many students use work-study funds to meet their personal financial needs during the school year.

All need-based financial aid is renewable up to four years provided the same level of need is demonstrated each year, the student maintains satisfactory academic progress as defined by the university for financial aid purposes and the funds remain available. Renewal cannot be assured to those students whose financial aid application files are completed after March 15 of any year.

Federal Programs

Federal Pell Grant

For students with a high need, Pell Grants provide from \$400 to \$4,050 annually.

Federal Supplemental Educational Opportunity Grants

Federal funds are given to and awarded by the university to students demonstrating high need. Amounts vary.

Federal Stafford Student Loans (Subsidized)

Moderate interest loans are awarded directly to students which are available through many state agencies and private lenders. Freshmen may borrow up to

\$2,625 annually, sophomores up to \$3,500 annually and juniors and seniors up to \$5,500 annually. These loans are federally guaranteed, and no interest accrues, nor is any payment due until six months after the student ceases to be at least a half-time student. Separate application is required.

Federal Perkins Loans

Federal funds are given to and awarded by the university to students demonstrating high need. No interest accrues, and no payment is due while the student is enrolled at least half-time. Repayment begins nine months after the student ceases to be at least a half-time student. Amounts vary.

Federal Work-Study

Awarded to students with need who work on campus and who are paid according to hours worked. Awards vary based on amount of need. Work-study earnings are not paid in advance, so they cannot be used to pay the direct costs (tuition, room, board, books, etc.) of the semester in which they are awarded.

State Programs

North Carolina Contractual Scholarship Fund

State funds are given to and awarded by the university to North Carolina residents with need. Amounts vary.

North Carolina Student Incentive Grant

Awards of up to \$700 annually are given to North Carolina residents.

Pennsylvania, Vermont, Maryland and Rhode Island State Grants

Students who are residents of these states may receive these grants. Amounts vary.

Elon University Programs

In addition to the numerous federal and state programs, the university offers its own need-based assistance. Funds for these programs are provided directly by the university as well as through donations and gifts to the university by many individuals, businesses and foundations. All students who apply for need-based aid and who demonstrate need are automatically considered for these funds. No separate application is required.

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The Leon and Lorraine Watson North Carolina Scholarship

Up to eight scholarship recipients will be chosen annually. To qualify for selection, students must be North Carolina residents who have attended for one or more year(s) and will graduate from a North Carolina high school and who have a strong record of academic achievement. Each annual award will include a \$5,000 Watson Scholarship and the North Carolina Legislative Tuition Grant, currently valued at \$1,800. Other scholarships and grants will vary according to financial need and academic achievement and may include state, federal and institutional funds. The goal will be to meet the full cost of tuition, fees, room and board or the student's full financial need, whichever is less. In addition, recipients receive a one-time grant of up to \$3,000 to fund a study abroad experience. A separate application is required and must be submitted by February 1 for the following academic year. For information, contact the Office of Admissions.

Institutional Grants

University grants are based solely on demonstrated need. Amounts vary in accordance with need.

Need-based Endowed Scholarships

Awarded to students who demonstrate need and who meet certain other criteria as established by the donors. The university identifies eligible students and awards these funds accordingly. No separate application is required.

Financial Assistance Not Based on Need

There is help available for students and families who do not qualify for need-based aid. This help is in the form of scholarships, grants, loans and work-study. Listed below are some of the opportunities available from Elon, state and federal governments and outside sources.

North Carolina Legislative Tuition Grant

Every North Carolina resident who attends Elon as a full-time undergraduate student automatically receives a Legislative Tuition Grant of approximately \$1,800 from the North Carolina General Assembly. The exact amount of the grant is set annually by the General Assembly. A brief application must be completed at registration to show legal residency.

UCC Ministerial Discount

\$2,000 per year (\$1,000 per semester) is awarded to full-time students who are legal dependents of full-time ministers in the United Church of Christ. Documentation of eligibility is required.

North Carolina Teaching Fellows

Elon is one of only two private colleges or universities in North Carolina selected to offer the prestigious North Carolina Teaching Fellows program. Fellows attending Elon receive a minimum annual funding of \$13,000 for four years plus air fare to London for one semester. The North Carolina Teaching Fellows Commission provides \$6,500, and an additional \$6,500 is guaranteed by Elon, including the North Carolina Legislative Tuition Grant. Fellows are selected by the Teaching Fellows Commission which provides its \$6,500 per year contribution on the condition that Fellows teach for four years in N.C. public schools after graduation. Elon admits 25 Teaching Fellows each year.

Presidential Scholarships

Presidential Scholarships of \$1,000-\$3,500 annually are awarded to approximately the top one-fourth of the entering freshmen each year. The awards are based on high school course selection, class rank and/or grades and SAT/ACT scores. No separate application is needed. Scholarships are automatically awarded to students who meet the necessary criteria when the completed admissions application is reviewed. All Presidential Scholarships are renewable for a total of four years pending acceptable academic performance.

Engineering Scholarships

Incoming freshmen who plan to major in Elon's dual-degree engineering program can compete for one of four \$2,000 engineering scholarships awarded annually. A special application is required and must be postmarked by January 10. Selection is based on academic performance, letters of recommendation and an interview. Engineering scholarships are renewable annually and are awarded in addition to any Presidential Scholarship award already received. Contact the Office of Admissions or Dr. Richard D'Amato, Director of Engineering Programs, for

more information or an application. Applications are available online at www.elon.edu/admissions/engineering.asp.

Fellows Scholarships

Elon's Fellows programs offer exciting academic and personal growth opportunities beyond the scope of the usual college experience — opportunities like travel grants, special courses, guaranteed internships or paid research assistantships. In addition, each of the Fellows programs offers scholarships to selected incoming Fellows. To be considered for one of these scholarships, students must apply and be admitted to the Fellows program. The scholarships are renewable for a total of four years provided that all program requirements are met. A student may apply for more than one Fellows program but will only be admitted to one program. Fellows scholarships are awarded in addition to any Presidential Scholarship that has been received.

To receive more information and an application for the Fellows programs, contact the Office of Admissions or visit www.elon.edu/admissions. Applications must be postmarked by January 10. The admissions application must be submitted by the same date.

Honors Fellows Scholarships

Forty scholarships of \$6,000 annually are awarded to freshman Honors Fellows each year.

Elon College Fellows Scholarships

Thirty-five scholarships of \$2,000 annually are awarded to incoming Fellows each year. All Elon College Fellows must major in the arts or humanities, social sciences or natural, mathematical or computational sciences.

Jefferson-Pilot Business Fellows Scholarships

Four scholarships of \$2,000 annually are awarded to incoming Fellows each year. Jefferson-Pilot Business Fellows must major in either business administration, economics or accounting.

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Journalism and Communications Fellows Scholarships

Four scholarships of \$2,000 annually are awarded to Fellows each year. Students must major in journalism or communications with an emphasis in either broadcast and new media, corporate or cinema.

Leadership Fellows Scholarships

Four scholarships of \$1,000 annually are awarded to freshman Leadership Fellows each year.

Fine Arts Scholarships

The Departments of Music and Performing Arts award scholarships to outstanding freshmen on the basis of audition. The scholarship amounts vary. Contact the Departments of Music and Performing Arts at 336-278-5600.

Athletic Scholarships

In compliance with NCAA Division I regulations, athletic scholarships are awarded by the Department of Intercollegiate Athletics in each sport offered at Elon. The awards are based on performance, and the amount varies. Contact the Athletics Department at 336-278-6800.

Reserve Officers Training Corps (ROTC)

Both the United States Army and Air Force offer four-year scholarships which cover the cost of tuition and books for four years, plus \$100 per month for personal expenses. Elon provides room and board at no cost to all four-year ROTC scholarship winners. Both the Army and Air Force also offer some two-year scholarships for which students in the Elon ROTC program may compete.

Private Scholarships

Foundations, service clubs, churches and corporations give away millions of dollars in scholarships each year to worthy students. Many Elon students receive this type of scholarship help in addition to other types of help they may be receiving.

Students generally seek these scholarships on their own. A good place to start is by asking your high school guidance office about community and other scholarships with which they may be familiar. Then ask about the availability of scholarships at places where family members are employed, through your church and through any organizations to which family members belong. Finally go to the public library for guidebooks to scholarships from foundations, corporations and government agencies or search the World Wide Web for information on scholarship sources.

Campus Employment

Many Elon students pay for some of their university living expenses by working a part-time job, either on or off campus. The opportunities for campus employment at Elon are available both to students who qualify for need-based assistance and to students who do not.

Students in part-time jobs gain valuable experience, learn time-management skills, build friendships with the office personnel and, in certain cases with the approval of the Director of Experiential Education, receive internship credit.

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Loan Options not Based on Need

Several sources of long-term loan funds are available that are based on credit worthiness rather than need.

Federal Parent Loan for Undergraduate Students (PLUS)

Parents may borrow up to the cost of education (at Elon, \$22,240 for tuition, fees, room and board and \$3,100 for books and miscellaneous expenses for 2003-04) less any other aid per academic year for each dependent enrolled at least half-time. The interest rate is variable and is based on the 91-day T-bill rate plus 3.10 percent with a cap of 9 percent. Repayment is not deferred during the student's period of enrollment.

Federal Stafford Student Loans (unsubsidized)

This is available to all students regardless of need. Loan amounts are the same as for the need-based subsidized program. However, under this program, borrowers do not qualify for federal interest subsidy payments, thus interest accrues while the student is in school. Repayment of principal begins six months after the student is no longer enrolled half-time. The interest rate is variable, capped at 8.25 percent and is based on the 91-day T-bill rate plus 2.3 percent. Separate application is required. Note: Students must file an application for need-based financial aid to be considered for one of these loans. A determination must first be made that the

student is not eligible for a need-based subsidized loan. (See “How to Apply for Need-Based Financial Aid.”)

How to Apply for Financial Aid

Note: The filing dates listed below will help you meet our priority deadline of March 15. Applications will be accepted after these dates, but funding cannot be guaranteed.

- As soon after January 1 as possible, but before February 15, complete and submit a Free Application for Federal Student Aid (FAFSA). All students applying for any kind of federal or institutional financial aid (except PLUS loans) must file the FAFSA. Elon's federal Title IV School Code is 002927.
- If you wish to be considered for all aid programs (not just federal programs), register for the Financial Aid PROFILE service. You should register no later than January 15. CSS will send you a customized PROFILE application. You should complete and submit the application as soon after January 1 as possible, but no later than February 15. Elon's CSS Code is 5183. The CSS is filed only as a freshman unless there are extreme financial changes.
- Complete an Elon University 2004-2005 Financial Aid Application. This form may be submitted at any time but, like the forms listed above, it should be submitted before February 15.
- Certain applications may require that Elon University request additional information. Respond to these requests as soon as they are made.
- Notify Elon's Office of Financial Planning of any scholarships, grants, loans or other assistance you will be receiving from any source other than Elon University. Such notification is required by federal regulation as well as institutional policy and failure to do so may affect previously made financial aid offers.

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Need-based Financial Aid Application Process for Continuing Students

Students must reapply for financial aid each academic year. Continuing students currently receiving financial aid will be sent a renewal financial aid packet sometime during late fall. The packet will contain those forms necessary to apply for aid for the following academic year. Specific instructions will be included as to how and when to complete the application process.

Payment Options

Online Payments

Students and parents may visit <https://ebill.elon.edu> and pay by credit card and/or check.

VISA/MasterCard/Discover

Elon University accepts these charge cards for payment of tuition and fees.

Ten-Month Payment Plan

Charges for the entire academic year, minus financial aid, are divided by 10 for monthly payments from June 1 through March 1. This plan is administered by Academic Management Services, 866-884-8466, www.TuitionPay.com.

Academic Programs, Degrees and Degree Requirements

Mission Statement

Rooted in the historic tradition of the United Church of Christ, Elon University embraces its founders' vision of an academic community that transforms mind, body and spirit, and encourages freedom of thought and liberty of conscience.

To fulfill this vision, Elon University acts upon these commitments:

- We nurture a rich intellectual community characterized by active student engagement with a faculty dedicated to excellent teaching and scholarly accomplishment.
- We provide a dynamic and challenging undergraduate curriculum grounded in the traditional liberal arts and sciences and complemented by distinctive professional and graduate programs.
- We integrate learning across the disciplines and put knowledge into practice, thus preparing students to be global citizens and informed leaders motivated by concern for the common good.
- We foster respect for human differences, passion for a life of learning, personal integrity and an ethic of work and service.

Academic Message

An Elon student's highest purpose is **Academic Citizenship**: giving first attention to learning and reflection, developing intellectually, connecting knowledge and experiences and upholding Elon's honor codes.

Elon University Academic Honor Code

All students at Elon University pledge to uphold the Academic Honor Code which recognizes self responsibility as a critical element in avoiding behaviors such as cheating, lying, plagiarizing, stealing and assisting other students in these violations. The current Student Handbook outlines violations, sanctions and hearing procedures in detail. For additional information, go to <http://www.elon.edu/students/handbook>.

Degrees and Degree Requirements

Bachelor of Arts (A.B.)

- Art
 - Ceramics
 - Digital Art
 - Painting
 - Photography
- Biology
- Chemistry
- Chemistry/Chemical Engineering
- Communications
 - Broadcast and New Media
 - Corporate Communications
 - Cinema
- Computer Information Systems
- Computer Science
- Computer Science/Engineering
- Dance
- Economics
- Education
 - Elementary (K-6)
 - Middle Grades (6-9)
 - Secondary Licensure (9-12)
 - Special Education/LD (K-12)
- English
 - Creative Writing
 - Literature
 - Professional Writing and Rhetoric
- Environmental Studies
- French
- History
- Human Services
- Independent Major
- International Studies
- Journalism
- Mathematics
- Music
- Music Performance
- Philosophy
- Physics
- Political Science

- Psychology
- Public Administration
- Religious Studies
- Science Education
- Social Science Education
- Sociology
- Spanish
- Theatre Studies
- Theatrical Design and Production

Bachelor of Fine Arts (B.F.A.)

- Music Theatre
- Theatre Arts (Acting)

Bachelor of Science (B.S.)

- Accounting
- Athletic Training
- Biology
- Business Administration
 - Management
 - Finance
 - Marketing
 - International Business
 - Management Information Systems
- Chemistry
- Computer Information Systems
- Computer Science
- Engineering Mathematics
- Engineering Physics
- Environmental Studies
- Environmental Studies/Engineering
- Exercise/Sport Science
- Health Education
- Leisure and Sport Management
- Mathematics
- Medical Technology
- Music Education
- Physical Education
- Physics

Bachelor’s Degree Requirements

Elon University offers an academic program consisting of a minimum of 132 semester hours of credit for the bachelor’s degree. The degree consists of a major field of concentration in the liberal arts or in a professional or preprofessional area, a General Studies program and elective courses. To earn a baccalaureate degree the student completes the following academic program:

- 1. Satisfactory work in one major subject
- 2. Completion of General Studies as follows:
 - a. First-Year Core
 - (1) General Studies 110 The Global Experience4
 - (2) General Studies/English 1104
 - (3) General Studies/Mathematics (MTH 112, 121 or higher)4
(Excludes MTH 210)
 - (4) General Studies/HED 111 Contemporary Wellness Issues2
 - b. Experiential Learning (one unit)
 - c. Studies in the Arts and Sciences

Transfer students with at least 18 semester hours of transfer credit must complete 32 hours total in Studies in the Arts and Sciences, but may have as few as 7 hours in one or more of the four Studies in the Arts and Sciences areas.

 - (1) Expression8

Eight hours chosen from at least two of the following: literature (in English or foreign languages), philosophy and fine arts (art, dance, fine arts, music, music theatre and theatre arts). At least one course must be literature.
 - (2) Civilization.....8

Eight hours chosen from at least two of the following: history, foreign languages and religion. Or eight hours chosen from foreign languages.
 - (3) Society8

Eight hours chosen from at least two of the following: economics, geography, political science, psychology and sociology.
 - (4) Science/Analysis.....8

Eight hours chosen from one or more of the following: mathematics, computer science (must have the CSC department designation) and science. At least one course must be a physical or biological laboratory science.
 - d. Advanced Studies12

Eight hours of 300–400-level courses outside the major field chosen from departments and areas listed under Studies in the Arts and Sciences (8 sh)

One General Studies Interdisciplinary Seminar (4 sh)

3. Completion of elective courses to meet 132 credit hours
4. Satisfactory completion of a comprehensive evaluation in the major field of study
5. A minimum of 36 semester hours of junior/senior level work
6. One full academic year of study at Elon (33 semester hours or more), including the last term before graduation
7. Twice as many quality points as credit hours attempted must be earned
8. Participation in commencement exercises

Students must demonstrate competence in English and Mathematics or successfully complete English 100 and Mathematics 100 before beginning English 110 and the mathematics requirement in the First-Year Core.

Students who have not had two years of one foreign language in secondary school must make up this deficiency by taking a first-level 121 foreign language course. Courses taken to remove this deficiency will not satisfy the General Studies requirements.

A maximum of 16 semester hours of internship/cooperative education credit may be applied to the 132 semester hours required for the A.B., B.S. and B.F.A. degrees.

Students must apply for graduation by the dates published by the Registrar.

A student may graduate under the provisions of the catalog published the year of first enrollment, provided the course of study is completed within five years. After the interval of five years, a student's credits will be subject to review by the Provost/Vice President for Academic Affairs.

Students who qualify for more than one major must select the primary major for which they will receive a bachelor's degree. No student will be awarded two degrees at commencement.

It is the student's responsibility to be familiar with the preceding requirements for graduation.

The Major

A minimum GPA of 2.0 in the requirements for the major is required for graduation. Bachelor of arts majors require 32-52 semester hours of credit. Bachelor of science or bachelor of fine arts majors require 32-68 semester hours of credit. The student may elect to complete more than one major. No later than the beginning of the junior year, each candidate for a bachelor's degree must select a major field. Requirements for each major are listed with the courses of instruction.

The Minor

A candidate for the bachelor's degree may elect a field (or fields) of minor concentration, consisting of 20-24 semester hours with a minimum GPA of 2.0.

Academic Programs

The academic program at Elon University prepares qualified students to enter graduate and professional schools or readies students to begin work in such fields as business, communications, teaching, public service and allied health. The bachelor's degree consists of a major field of concentration in the liberal arts or in a professional or preprofessional area, a general studies program and elective courses.

General Studies

Elon's General Studies program reflects the university's long history of strong liberal arts education in a distinctive and highly contemporary form. First year students have the exceptional opportunity to begin their university careers in an intimate, seminar setting. The Global Experience course features a broad interdisciplinary investigation into many of the profound challenges facing the planet as we move into this new millennium. With classes individually designed by professors noted for their excellent teaching, each group gains a unique perspective on a set of issues under discussion campus-wide. As a result, the entire class of first year students participates in an ongoing dialogue rich with diverse opinions, approaches and sources of information.

The Global Experience course models the most admirable qualities of university learning. Students are called upon to participate and converse daily in a seminar setting. Collaboration and cooperation are fostered by frequent activities and projects. Writing and critical thinking are refined, and the students develop a skill set that supports their future explorations in the university and beyond.

Developed with the support of the National Endowment for the Humanities, the advanced seminars at the junior and senior level are interdisciplinary in order to help students think about important issues that cross the boundaries of traditional disciplines.

Elon's General Studies program also embodies the university's focus on a holistic approach to education, linking theory to application through the experiential learning requirement. Through General Studies, Elon students encounter the best of the Elon faculty, are challenged to think in new and creative ways and bring focus to their education through experience.

The General Studies program consists of four elements:

First-Year Core

In these four courses, students: 1) sharpen their reading, communication, numerical and information retrieval skills, 2) deepen their appreciation for a diversity of ideas, 3) grow in their ability to think independently, 4) learn to appreciate the wholeness of their own mind, values and body, 5) build on the careful and creative thinking that will bring them into the world of scholarship, and 6) learn that leadership is a way of thinking as well as a set of skills.

Experiential Learning

The requirement encourages students to engage the world about them actively and to reflect insightfully about their experiences. Included in experiential learning are study abroad, internships/co-ops, service learning activities, undergraduate research programs, leadership activities and individualized learning.

Studies in the Arts and Sciences

Elon students take courses from a variety of areas, learning facts and ideas from professors and disciplines outside their majors. As they complete their Studies in the Arts and Sciences requirement, Elon students learn that there are multiple ways to examine problems and differing strategies for the development of solutions.

Advanced Studies

Upper-level courses outside the major carry the broad Elon education past the introductory level. A required interdisciplinary seminar provides the capstone to the General Studies experience. Students work closely with a professor as they use intellectual skills to cross the borders between traditional academic disciplines.

The General Studies program assumes learning is cumulative and developmental. Elon University students will revisit the theme of a broad education from initial enrollment to graduation.

Elon 101

Elon 101 is a specially designed academic advising course/program that introduces first-semester students to life at Elon University. Among the topics discussed are academic expectations and how to become involved in campus activities. An extended orientation to Elon, the course is co-taught by the students' academic advisors and student teaching assistants. This elective class is limited in size to 16 students. The course meets weekly during the first semester and offers one semester hour of general credit upon successful completion. Grades given in this course are "Satisfactory" or "Unsatisfactory."

Degrees and Major Fields of Concentration

Elon offers courses leading to the undergraduate degrees of Bachelor of Arts, Bachelor of Fine Arts and Bachelor of Science.

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The Bachelor of Arts degree is awarded in the following fields: Art (Ceramics, Digital Art, Painting and Photography), Biology, Chemistry, Chemistry/Chemical Engineering, Communications (Broadcast and New Media, Corporate Communications and Cinema), Computer Information Systems, Computer Science, Computer Science/Engineering, Dance, Economics, Education (Elementary, Middle, Secondary — various subject areas, Special Education/Learning Disabilities), English (Creative Writing, Literature and Professional Writing and Rhetoric), Environmental Studies, French, History, Human Services, Independent Major, International Studies, Journalism, Mathematics, Music, Music Performance, Philosophy, Physics, Political Science, Psychology, Public Administration, Religious Studies, Science Education, Social Science Education, Sociology, Spanish, Theatre Studies and Theatrical Design and Production.

The Bachelor of Fine Arts degree is awarded in Music Theatre and Theatre Arts (acting emphasis).

The Bachelor of Science degree is awarded in the following fields: Accounting, Athletic Training, Biology, Business Administration (concentrations in Management, Finance, Marketing, International Business and Management Information Systems), Chemistry, Computer Information Systems, Computer Science, Engineering Mathematics, Engineering Physics, Environmental Studies,

Environmental Studies/Engineering, Exercise/Sport Science, Health Education, Leisure and Sport Management, Mathematics, Medical Technology, Music Education, Physical Education and Physics.

Professional Programs

Elon University offers professional programs in Accounting, Business Administration, Communications, Computer Science, Education, Engineering, Human Services, Journalism, Music, Public Administration and Medical Technology. These programs prepare graduates to enter beginning-level professional positions. Qualified graduates may wish to continue their studies in graduate school.

Preprofessional Programs

Elon University offers programs that prepare students for professional studies in such fields as dentistry, engineering, law, medicine, physical therapy and theology. Students entering any preprofessional program should plan carefully, using the catalog of the professional school they wish to enter as a specific guide to choosing courses at Elon University. In addition to the preparation students receive through the regular academic curriculum, Elon offers a preprofessional advising program that emphasizes careful academic advising, special programs and workshops, and assistance in the graduate application process. Faculty advisors are available to assist students in this planning.

Minor Fields of Concentration

Candidates for the bachelor's degree may elect a minor concentration consisting of at least 20 semester hours.

The following minor fields are available: Accounting, African/African-American Studies, Anthropology, Art History, Asian/Pacific Studies, Biology, Business Administration, Chemistry, Cinema, Classical Studies, Communications, Computer Information Systems, Computer Science, Criminal Justice, Dance, Economics, English, Exercise/Sport Science, French, Geography, Geographical Informations Systems, History, Human Services, International Studies, Latin American Studies, Leisure and Sport Management, Mathematics, Multimedia Authoring, Music, Non-Violence Studies, Philosophy, Physical Education, Physics, Political Science, Professional Writing Studies, Psychology, Public Administration, Religious Studies, Sociology, Spanish, Studio Art, Theatre Arts and Women's Studies/Gender Studies.

Enrichment Programs

Leadership Development

Special courses, service projects, organizational leadership and internships help students develop the characteristics that identify a leader in any field: strong character, good communication skills, self-confidence, the ability to make decisions and motivate others, solve problems and take risks. Leadership development programs are described more fully in the Student Life section of Elon's Web page.

Service Learning

Acting on the university's commitment to civic responsibility and leadership, the Kernodle Center for Service Learning and Elon Volunteers! offer programs and projects ranging from Habitat for Humanity to tutoring and mentoring programs. In addition, campus organizations participate in a variety of support and fund-raising programs, such as the Adopt-A-Highway clean-up program, American Red Cross Blood Drive, Special Olympics and March of Dimes walk-a-thon. For additional service learning opportunities, go to <http://www.elon.edu/catalogresources/>.

Internship and Co-op Opportunities

Through internships and co-op opportunities, Elon helps students apply classroom knowledge, understand the value of productive work, develop the knowledge and skills to compete and progress in a meaningful job or earn money to meet financial obligations. The Elon Career Center assists students in the preparation and planning of careers and provides the resources and support needed for successful employment and career advancement after graduation. More than 78 percent of 2003 Elon graduates participated in internships and co-ops.

Study Abroad

Study abroad programs through the Isabella Cannon Centre for International Studies enhance the academic program and give students an opportunity to learn firsthand from other countries and cultures. Approximately 63 percent of the 2004 Elon graduates participated in study abroad activities. The university offers a variety of such opportunities.

Students may elect to spend a semester, either fall or spring, abroad in one of Elon's eighteen approved programs. Each one offers a wide range of classes that will apply either towards General Studies or major requirements. In some locations internships, research projects and volunteer service are possible. Fall and spring breaks allow further exploration of neighboring countries. Semesters in Chile, Ecuador, Argentina, Costa Rica, Japan, France and Spain require a specific level of language proficiency. Semester study in Sweden and Denmark allow for language study but, classes are taught in English. Other semester opportunities include England (London or University of Sussex), Scotland (St. Andrews), Africa (University of Ghana), Italy, the Caribbean and Australia.

During the winter term, the university offers a wide range of study opportunities abroad. Although the courses vary from year to year, Elon students for the past few years have chosen from a range of courses in the London program; studied economics in eastern European countries; literature in Ireland; fine arts in Italy; the European Union and the history of World War II in Western Europe; language and culture in Costa Rica; culture and history in Ghana; biology in Belize; and Aboriginal communities in Australia to name only a few. New courses are added each year reflecting student and faculty interests.

All students enrolled in an Elon approved study abroad course or program must purchase the study abroad health and accident insurance that covers medical evacuation and repatriation. This requirement applies as well to students doing independent research or study, internship/co-op and any other independently arranged academic activity outside the United States for which they are registered to receive academic credit from Elon University.

Undergraduate Research and Independent Study

Undergraduate research and independent study are integral parts of the educational program at Elon University. With the assistance of faculty members, students develop hypotheses and think creatively. Those students who plan to attend graduate school benefit from the research experience. By providing an atmosphere for one-on-one learning with professors, Elon gives students a unique opportunity to discover the experience of being a professional in their chosen field. Elon students can showcase their research efforts in the Student Undergraduate Research Forum (SURF) where participants give a presentation of their research projects and respond to questions from the audience. Students receive academic credit and have the opportunity to present research papers off campus at regional, state and national conferences.

Military

ROTC

The Reserves Officers Training Corps program offers a military science curriculum leading to commission in the U.S. Army upon graduation. This course offers built-in financial assistance and special scholarship programs. In cooperation with North Carolina A&T State University, an option for Air Force ROTC is available.

Credit for Veterans

This program offers military personnel on active duty the opportunity to submit CLEP credit by contacting their Education Officers or USAFI in Madison, Wisconsin, for testing. Credit for work completed may be transferred to other accredited postsecondary institutions and service experience is accepted for physical education requirements.

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Academic Support Services

Elon University seeks to meet the individual academic needs of all students. In order to accomplish this, the university places emphasis on a variety of academic support services.

Academic Advising Center

Students are assigned faculty advisors before they enter Elon University. An important part of the Academic Advising Center's service is Elon 101, a freshman advising course. Freshmen not enrolling in Elon 101 are assigned advisors based on whether or not they have expressed an interest in a major. Students without clear career goals may be counseled in selecting a major and are assigned advisors within the major departments. Special advising assistance is also available for students in preprofessional programs such as prelaw, premedicine and pre-engineering. Transfer students are assigned an academic advisor in the department of their majors at the time they enter.

Career Center

The Career Center offers services and programs to support students and alumni in the lifelong process of defining career goals, learning the skills to attain them and developing employment opportunities. Internships, co-ops and individualized learning are coordinated through the Career Center, where students can find assistance in identifying opportunities related to their major and career interests.

Career assistance is provided through testing and advising to identify abilities, interests and values related to career choices, developing a career plan and finding available job or graduate school options. Center staff also offer individual appointments, workshops and programs that help students develop the skills required for a successful search. Designing effective resumes and job search letters, learning the art of networking, conducting a comprehensive job search and preparing for interviews are examples of skill sets that students can develop at the Career Center.

Disabilities Services

Although Elon has no formal program for students with disabilities, the university does attempt to make reasonable classroom accommodations for students who provide formal documentation from a licensed/certified doctor, psychologist or learning specialist. The documentation should be dated within four years of the student's enrollment at Elon, should explain the limitations resulting from the disability and include specific accommodations needed. Students who wish to discuss their disabilities and appropriate accommodation should contact Priscilla Lipe, Disabilities Service Coordinator, in the Academic Advising Center in Duke 108. Copies of the Elon University disabilities policy and procedures are also available in Duke 108. Dr. Smith Jackson, located in Alamance 109, is the Section 504 Coordinator.

Peer Tutoring

Peer tutoring is offered to all students, covering most subject areas, through Tutorial Services. Walk-in tutoring is held in Belk Library, Sunday through Thursday evenings. The tutor schedule is located at www.elon.edu/tutoring. No additional fee is required. Tutorial Services also offers study skills seminars for students during fall and spring semesters.

Internships or Co-ops

Elon University strongly supports programs that allow students to relate their classroom learning to work experience. Active cooperative education and internship programs provide opportunities throughout the academic year and during summers for students to explore careers, to integrate theory with practice and to examine future job possibilities. In each learning experience, the student's academic or career-related work assignment is supervised and evaluated by Elon faculty. Internships are directly related to majors or minors, may be full- or part-time and paid or unpaid. Most departments offer internship credits. Co-ops usually offer pay, are full- or part-time, may be repeated and count toward elective credit. The class COE 310, Securing a Job, is recommended for co-op students.

Eligibility Requirements: Students must be a junior or senior (sophomore for co-op), have a 2.0 minimum GPA, have completed departmental prerequisites and have approval from the Faculty Sponsor/Experiential Education Director.

The Elon Experiences Transcript

The Elon Experiences Transcript provides a cocurricular transcript that enhances job and graduate school opportunities. This transcript will document study abroad, service, leadership, internships/co-ops and undergraduate research throughout the student's university career. Elon Experiences help develop informed, productive, responsible and caring citizens — individuals equipped with an education that enriches personal lives and enhances professional careers.



General Academic Regulations

Registration and Courses

Student Academic Classification

Classifications are made at the beginning of the university year in August.

- | | |
|-------------|-------------------------------------|
| • Freshman | 1-29 semester hours completed |
| • Sophomore | 30-61 semester hours completed |
| • Junior | 62-95 semester hours completed |
| • Senior | 96 or more semester hours completed |

Course Load

Sixteen hours of university work per semester is considered the normal student load. Students who are on academic probation are limited to a maximum load of 12 semester hours in fall and spring semesters.

During the one-month winter term, four hours of university work is the normal load for all students.

Maximum load for any one semester is as follows:

- Fall and Spring Semesters, 18 semester hours
- Winter Term, 4 semester hours
- Summer Term, 8 semester hours

Any exception to this policy is the responsibility of the Assistant to the Provost, located in Alamance 102.

Course Registration

Students are expected to register for themselves on the designated days in August, January and February. Registration information is available to all students. Registration includes academic advising, selection of courses and payment of fees. Before preregistration or registration, each student should consult with his/her academic advisor on course selection, General Studies requirements, major requirements and other degree requirements. However, it is the responsibility of the student, not the academic advisor, to ensure that all university graduation requirements are met.

Registration is for an entire course, and a student who begins a course must complete it except in unusual circumstances. Unless the student and his/her advisor consider it essential, a student should not change his/her schedule after registration.

Auditing Courses

Persons wishing to attend certain courses regularly without doing the assigned preparation or receiving credit may do so with the approval of the Registrar. The cost is \$125 for each course.

Changes in Class and Schedule

The university reserves the right to cancel or discontinue any course because of low enrollment or for other reasons deemed necessary. In order to assure quality instruction, the university reserves the right to close registration when the maximum enrollment has been reached. The university reserves the right to make changes in schedule and/or faculty when necessary.

Credit by Examination (Course Challenge)

A student may receive credit for a course not taken by demonstrating mastery of its subject matter. To challenge a course, a student must have the approval of the appropriate academic dean, the chair of the department in which the course is offered and the professor who will test the student's mastery of the subject matter. Whenever possible, the student should consult the professor far enough in advance of the term in which the examination will be taken to determine course requirements and standards and to begin to make independent preparations. However, the student should expect no assistance from the professor other than being informed of the material to be covered on the examination. Under no circumstances shall a student be allowed to attend classes of the course being challenged. The cost for each examination is \$544.

Dropping Courses

A student may officially drop any class with a "W" (withdraw without penalty) through half of the term. (A "term" includes the examination period.) The withdrawal period applies to the regular semesters, classes taught for one half-semester, winter term and the summer sessions. After that date no class may be dropped. Any exception to this policy is the responsibility of the appropriate Academic Dean's office.

A student who withdraws from the university for any reason (except for a medical reason) receives grades of "W" if the withdrawal is before the designated half-term time period. After this time a student will receive a "W" or "F" depending on his/her grades at the time of withdrawal. A student who withdraws from the university with a medical withdrawal will receive a "WD."

Independent Study

Students may engage in independent study of catalog courses and special topics. Independent Study is limited to Elon's honors students, juniors and seniors except by special permission. A course may not be repeated by Independent Study. Details concerning the procedure for developing an Independent Study proposal may be obtained in the Registrar's Office.

Undergraduate Research

Undergraduate Research is an effort to discover something new, or to look at something from a new perspective. Students may earn academic credit for research undertaken with a faculty mentor. Research projects must include a review of the relevant research literature, research design and significant participation in the actual conduct of the research, including analysis and interpretation. A written report is considered essential, a copy of which should be made available in the department office. Undergraduate research credit can be obtained by registering for a course numbered 499 and is limited to students with sophomore, junior or senior standing and a minimum GPA of 2.5. A limit of 8 credit hours of undergraduate research can be applied toward graduation.

Overload

A student whose cumulative GPA is less than 3.0 may not register for overload hours in any term. See page 37 on course load.

Pass/Fail Elective Courses

A student may take two one-semester courses outside the major, minor and General Studies requirements on a pass/fail basis. Study abroad courses may not be taken on a pass/fail basis. The pass/fail option encourages students to enrich their educational experience in subjects outside their major/minor fields and General Studies requirements in which they may feel unable to maintain a desirable GPA. The decision to take a course pass/fail must be made at registration before the first class period.

Repeat Courses

Courses repeated within four semesters of attendance (excluding winter and summer sessions) following the first enrollment in the course count only once in computing the cumulative GPA. In such cases the most recent grade is counted rather than any previous grade(s) received. However, a course repeated more than once will count in the cumulative GPA each time it is repeated. A course in which an "F" was received due to a violation of the Academic Honor Code may be repeated; however, the original grade will count in the cumulative GPA. (Students receiving Veterans' benefits should consult the VA representative.)

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Attendance

Since students must attend classes regularly in order to derive maximum benefit from their courses, the university strictly and fairly enforces policies governing classes, and students are responsible for knowing attendance regulations. Each department establishes its own attendance policy. If unwarranted absences occur, the Provost/Vice President for Academic Affairs may suspend the student from the class or from the university.

Absence From Tests and Examinations

Students who miss scheduled tests and examinations without excusable reasons may not make up such assignments. Authorization to make up tests missed for excusable reasons is obtained from the professor of the class. Final exam scheduled dates and times should not be changed for individual students or classes without prior approval from the appropriate department chair. Permission to make up missed exams must be secured from the department chair. This permission is ordinarily not given except on the basis of a medical statement.

Grades and Reports

Grading System and Quality Points

Graduation is dependent upon quality as well as upon quantity of work done.

A student earns quality points as well as semester hours if his/her level of performance does not fall below that of a "D-."

Letter grades are used. They are interpreted in the table below, with the quality points for each hour of credit shown at right.

Grade	Quality Points
A	.4.0
A-	.3.7
B+	.3.3
B	.3.0
B-	.2.7
C+	.2.3
C	.2.0
C-	.1.7
D+	.1.3
D	.1.0
D-	.0.7
F	.0.0
I Incomplete	.0.0
P Passing (not counted in cumulative average)	.0.0
S Satisfactory (not counted in cumulative average)	.0.0
U Unsatisfactory (counted in cumulative average)	.0.0
WD Medical withdrawal	.0.0
W Withdrawal	.0.0
NR No Report	.0.0

A grade in the "A" range indicates distinguished performance in a course.

A grade in the "B" range indicates an above-average performance in class.

A grade in the "C" range indicates an average performance in which a basic understanding of the subject has been demonstrated.

A grade in the "D" range indicates a passing performance despite some deficiencies.

A grade of "F" indicates failure.

Grades of “A” through “F” are permanent grades and may not be changed except in case of error. After an instructor has certified a grade to the Registrar, he/she may change it before the end of the next regular grading period. The change must be made in writing and have the written approval of the department chair.

An “I” grade signifies incomplete work because of illness, emergency, extreme hardship or self-paced courses. An “I” grade is normally not given when a student has missed more than 30 percent of the class work. It is not given for a student missing the final examination unless excused by the appropriate department chair upon communication from the student. The student receiving a grade of “I” completes all work no later than nine class days after mid-semester grades are due during the following semester. A final grade is submitted to the Registrar by the instructor the following Monday. After this date the “I” grade automatically changes to “F” unless an extension is granted by the Provost/Vice President for Academic Affairs.

Grade Point Average (GPA)

The GPA is computed by dividing the total quality points on work attempted at Elon University by the number of hours attempted except for courses with grades of “I,” “S,” “WD” or “W.”

Grade Reports

Students are graded at mid-semester as well as at the end of each semester. Mid-semester grades serve as progress reports and are not entered on students’ permanent records.

President’s and Dean’s Lists

The Dean’s List recognizes and encourages excellence in academic work. A student who has no grade below a “B-” and a GPA of at least 3.4 in a minimum of 12 semester hours in any semester is placed on the Dean’s List for the following semester. Those students who have no grade below an “A-” in a minimum of 12 semester hours in any semester are placed on the President’s List. Classes passed on a Pass/Fail basis or classes with grades of “S,” “WD” or “W” are not included in Dean’s List or President’s List eligibility.

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Graduation With Honors

Students completing at least 66 credit hours at Elon University may graduate with honors. Candidates for graduation with an average of 3.9 or above are graduated *summa cum laude*; those with 3.7 or above, *magna cum laude*; and those with 3.5 or above, *cum laude*. In computing eligibility for honors, only work attempted at Elon University will be used.

Access to Student Educational Records

Elon University complies with the Family Educational Rights and Privacy Act of 1974. This Act protects the privacy of educational records, establishes the right of students to inspect and review their educational records and provides guidelines for the correction of inaccurate or misleading data through informal and formal hearings. Students also have the right to file complaints with the Family Educational Rights and Privacy Act Office (FERPA) concerning alleged failures by the institution to comply with the Act.

Questions concerning the Family Educational Rights and Privacy Act may be referred to the Office of the Registrar.

Transcripts of Student Records

Requests for copies of a student's record should be made to the Office of the Registrar. All transcripts reflect the student's complete academic record. No transcripts are issued without the written authorization of the student. No transcript is issued for a student who has a financial obligation to the university.

Work at Other Institutions

Students who plan to take courses at other institutions must have the prior written permission of the Registrar. Currently enrolled students must have a minimum 2.0 GPA in order to transfer course credit from another institution to Elon University. After completion of such courses, the student presents an official transcript of his/her record to the Registrar.

Academic Standards and Withdrawal

Academic Standing

Academic standing is determined by the earned GPA for any one semester of attendance and for cumulative work. A student whose cumulative GPA falls below 2.0 is reviewed by the Academic Standing Committee and placed on academic probation or academic suspension.

Probation

Students who are put on probation are notified that their GPA is below 2.0, that they are limited to a maximum load of 12 semester hours and that three consecutive semesters on probation will result in suspension.

Suspension

Students who are suspended are separated from Elon University, and one academic semester must elapse before they are eligible for readmission. While suspended, students may not take classes at other institutions and transfer them to Elon University.

In order to continue at the university a student must earn a minimum GPA each semester of 1.0. In addition, at the end of spring semester the student must have:

- Freshman: 1-29 semester hours completed, 1.70 GPA
- Sophomore: 30-61 semester hours completed, 1.80 GPA
- Junior: 62-95 semester hours completed, 1.90 GPA
- Senior: 96 semester hours completed, 2.0 GPA

A student who is suspended and is readmitted in a subsequent term must have a minimum GPA each term or semester of 2.3 (C+) until the student's cumulative GPA is 2.0 or higher. Failure to do so will result in a second and final suspension.

Any student failing to meet these guidelines will be academically ineligible for the next semester and suspended from the university. During the suspension period which includes fall or spring semester, the student may apply for readmission

and, if readmitted, will be placed on academic probation. A student who is suspended a second time for academic reasons is normally not readmitted to the university.

Dismissal

The university reserves the right to suspend or dismiss any student(s) when it believes that such action is in the best interest of the institution and/or the student(s). This action will take place only after careful consideration with the student(s) in question and all other parties with information pertinent to the matter at hand.

Withdrawal

If for any reason a student concludes that he/she must leave the university on a temporary or long-term basis, he/she must confer with the Office of Student Life to formalize plans. Faculty will be requested to report student progress in class at the time of withdrawal by indicating either a "W" or "F" grade. A student withdrawing with medical reasons will receive grades of "WD." The official record of the student cannot be cleared until the withdrawal is complete.



Courses

Courses numbered 100–199 are freshmen level, 200–299 are sophomore level and 300 and above are junior/senior level.

Accounting and Finance

The Martha and Spencer Love School of Business mission statement.

To provide instruction and experiences for our students so they graduate with the knowledge, skills and character essential for responsible business leadership in the 21st century.

Chair, Department of Accounting and Finance: Professor Cassill

Professor: Synn

Associate Professors: McGregor, Pavlik, Poulson

Assistant Professors: Cox, Meredith

Instructor: Cardwell

Accounting involves measuring business activities and communicating this information to investors, creditors and other decision makers who use it to make sound, informed financial decisions. This practice serves to encourage investment activity, which in turn, creates jobs and helps the economy to grow.

Elon's program leading to the B.S. in accounting includes the central topics of financial and managerial accounting plus an introduction to taxation, auditing and commercial law. The accounting program prepares the graduate to be a professional accountant in business, government, nonprofit and other organizations. This degree can also serve as a basis for graduate study in accounting and other fields, including business administration and law.

Students wishing to obtain certification as a CPA and practice in the field of public accounting must have 150 hours of college credit that includes at least 30 semester hours of Accounting.

Accounting Majors: At least 50% of the accounting credit hours required for the degree (B.S. in Accounting) must be earned at Elon University.

A major in Accounting requires the following courses:

Choose one from the Studies of Arts and Sciences above and beyond the general studies requirements set by the University

4 sh

MTH 112 General Statistics 4 sh

MTH 116 Applied Mathematics with Calculus 4 sh **or**

MTH 121 Calculus and Analytic Geometry I

CIS 211 Management Information Systems 4 sh

ECO 201 Principles of Economics 4 sh

ECO 203 Statistics for Decision Making 4 sh

BUS 221 Legal Environment of Business 2 sh

BUS 202	Business Communications	4 sh
BUS 311	Principles of Marketing	4 sh
BUS 323	Principles of Management	4 sh
FIN 343	Principles of Finance	4 sh
BUS 465	Business Policy	4 sh
ACC 201	Principles of Financial Accounting	4 sh
ACC 212	Principles of Managerial Accounting	4 sh
ACC 331	Intermediate Accounting I	4 sh
ACC 332	Intermediate Accounting II	4 sh
ACC 336	Cost Accounting	4 sh
ACC 341	Fundamentals of Income Taxation	4 sh
ACC 456	Auditing	4 sh
TOTAL		74 sh

Additional accounting courses that may be taken as electives include:

ACC 365	Computerized Accounting (Winter Term)	4 sh
BUS 418	Commercial Law	4 sh
ACC 442	Advanced Taxation	4 sh
ACC 451	Advanced Financial Accounting	4 sh
ACC 471	Seminar: Special Topics	4 sh
ACC 481	Internship in Accounting	1-8 sh
ACC 491	Independent Study	1-4 sh
ACC 499	Independent Research in Accounting	1-4 sh

A minor in Accounting requires the following courses:

ACC 201	Principles of Financial Accounting	4 sh
ACC 212	Principles of Managerial Accounting	4 sh
FIN 343	Principles of Finance (prerequisites ECO 201 and ECO 203)	4 sh

Select two electives from the following list: 8 sh

ACC 331	Intermediate Accounting I
ACC 332	Intermediate Accounting II
ACC 336	Cost Accounting
ACC 341	Fundamentals of Income Taxation
ACC 365	Computerized Accounting (Winter Term)
ACC 471	Seminar: Special Topics

TOTAL **20 sh**

Accounting Courses

ACC 201. PRINCIPLES OF FINANCIAL ACCOUNTING

4 sh

In this introduction to the financial reporting process, study emphasizes the accrual basis of accounting. Students learn to prepare and interpret income statements and balance sheets, analyze business transactions and determine the effects of transactions on assets and equities. Offered fall and spring.

ACC 212. PRINCIPLES OF MANAGERIAL ACCOUNTING**4 sh**

Students gain an overview of the ways accounting information helps managers as they plan, develop control procedures and make decisions for their organizations. The course also covers the concepts of cost behavior, cost-volume-profit analysis and the preparation of budgets. Prerequisite: ACC 201. Offered fall and spring.

ACC 331. INTERMEDIATE ACCOUNTING I**4 sh**

Intermediate Accounting begins an in-depth study of generally accepted accounting principles and their theoretical basis. Students explore the contents of and interrelationships among the balance sheet, income statement and statement of cash flows, along with techniques for analyzing and correcting errors. Some of the more important accounting standards of the Financial Accounting Standards Board are included. Prerequisites: ACC 201 and 212. Offered fall and spring.

ACC 332. INTERMEDIATE ACCOUNTING II**4 sh**

This continuation of the in-depth study of financial accounting (begun in ACC 331) emphasizes intangible assets, acquisition of property, current and long-term liabilities and stockholders' equity. Prerequisite: ACC 331. Offered fall and spring.

ACC 336. COST ACCOUNTING**4 sh**

In cost accounting, students examine methods for gathering and analyzing production cost data, which managers use to plan, budget and set prices for their products, with emphasis on the job order costing, process costing and standard costing methods and the interpretation of data produced by each system. Prerequisites: ACC 201 and 212. Offered fall and spring.

ACC 341. FUNDAMENTALS OF INCOME TAXATION**4 sh**

This introduction to the structure of the federal income tax system emphasizes the theories, procedures and rationale associated with the taxation of individuals. Prerequisite: ACC 201. Offered fall and spring.

ACC 365. COMPUTERIZED FINANCIAL ACCOUNTING**4 sh**

In this interesting and practical course, students will assume the role of owner of a simulated small business. Up-to-date accounting software will be used to keep the financial records. This hands-on experience will enhance the understanding of accounting and its essential role in the business world and, at the same time, provide a practical instruction in the use of modern Windows-based accounting software. Prerequisite: ACC 201. Offered winter.

ACC 442. ADVANCED TAXATION**4 sh**

This course continues the study of special topics including corporations, capital gains and losses, estate and gift taxation, tax administration and tax research. Students will learn to locate relevant information in regulations, revenue rulings and court cases. They will report their findings in the form of written reports and memoranda. Prerequisite: ACC 341.

ACC 451. ADVANCED FINANCIAL ACCOUNTING**4 sh**

Continuing the in-depth study of financial accounting that began in Intermediate Accounting, this course includes accounting for business combinations, with special emphasis on preparing consolidated financial statements for parent and subsidiary corporations. Accounting for governmental units and other not-for-profit organizations is also introduced. Prerequisites: ACC 331 and 332, or ACC 331 and concurrent enrollment in ACC 332.

ACC 456. AUDITING**4 sh**

Study of auditing covers both theory and practice, including ethics, generally accepted auditing standards, internal accounting controls, auditors' working papers, the components of audit risk, compliance testing and substantive testing. Prerequisite: ACC 331. Offered spring.

ACC 471. SEMINAR: SPECIAL TOPICS

1-4 sh

This upper level seminar, an advanced study requiring active participation by students, consists of readings, problems, reports, discussions of current topics or preparation for professional examinations. May be conducted by departmental faculty or other resource persons. Prerequisite: permission of instructor, may vary with topic.

ACC 481. INTERNSHIP IN ACCOUNTING

1-8 sh

An internship offers the student valuable experience in the field of accounting. Appropriate placement must be arranged by the student with the help and support of the faculty and other appropriate resources.

ACC 491. INDEPENDENT STUDY

1-4 sh

ACC 499. RESEARCH

1-4 sh

Students can engage in an undergraduate research study in collaboration with a faculty sponsor.

Finance Courses

FIN 303. INTRODUCTION TO FINANCE

4 sh

For non majors and business administration minors, this introductory course offers a balanced, survey approach to the three major areas of finance – investments, financial markets and corporate or business finance. It is designed to provide students a foundation with regard to the key concepts from each of these areas so that they will better understand the functions of the financial system and the role it has in their lives. Sophomore standing required. No credit for both FIN 343 and FIN 303. Offered fall and spring.

FIN 343. PRINCIPLES OF FINANCE

4 sh

This course provides an introduction to the fundamental concepts and techniques of finance and might be subtitled “what every business major needs to know about finance.” It is designed to provide students a foundation with regard to the key concepts from each of three major areas of finance – investments, financial markets and corporate or managerial finance. In the class, we will discuss issues relating to the financial markets, the time value of money, financing, valuation, investments and other topics. Prerequisites: ACC 201, 212, ECO 201 and 203. Offered fall and spring.

FIN 413. ADVANCED MANAGERIAL FINANCE

4 sh

The in-depth study of financial management from the perspective of valutive theory involves discussions of topics such as security evaluation and capital budgeting within the framework of the Capital Asset Pricing Model. Study relates cost of capital, capital structure and leverage to valuation concepts. Examination of long-term financing includes studies of leasing as well as warrants, convertibles and options. Valuation impacts of mergers and reorganizations are also covered. Prerequisite: FIN 343.

FIN 416. FUNDAMENTALS OF INSURANCE

4 sh

This course provides a study of the basic principles of insurance contracts and the scope of coverage under the several divisions of insurance, including life, fire, casualty, marine, bond and automobile insurance. Prerequisite: FIN 343.

FIN 419. FINANCIAL SERVICES

4 sh

This course is designed to introduce students to the U.S. financial services sector and to show how the industries within the sector relate to the financial planning process. Broad topics include retirement and estate planning and the functions of the banking, insurance and mutual fund industries. Under each of the broader topics, many of the products and services offered by the industries will be discussed and linked to the financial planning process. The prerequisite for the course is FIN 343. Offered spring.

FIN 421. INVESTMENT PRINCIPLES**4 sh**

This course provides an introduction to the basic concepts of investments and investment management. It is designed to develop a framework within which to view the investment process and an understanding of the institutional setting in which investment decisions are made. Topics covered include: financial markets, risk and return analysis, fundamental and technical analysis, derivatives, and asset allocation. Finally, global, ethical, legal, regulatory and financial planning issues will be discussed throughout the course. Prerequisites: FIN 343. Offered fall.

FIN 445. SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT**4 sh**

This course teaches the application of tools and techniques for appraising the economy, specific industries and companies, emphasizing securities markets from the perspectives of institutional portfolio managers or personal investors. Prerequisite: FIN 343.

FIN 471. SEMINAR: SPECIAL TOPICS**1-4 sh**

This upper level seminar, an advanced study requiring active participation by students, consists of readings, problems, reports, discussions of current topics or preparation for professional examinations. May be conducted by departmental faculty or other resource persons. Prerequisite: permission of instructor, may vary with topic.

FIN 481. INTERNSHIP IN FINANCE**1-8 sh**

An internship offers the student valuable experience in the field of finance. Appropriate placement must be arranged by the student with the aid and support of the faculty and other appropriate resources.

African/African-American Studies

Coordinator: Associate Professor Boyd

African/African-American Studies takes an interdisciplinary approach to study two cultures and connect the past with the present. The program, developed in 1994, allows the student to select from a current group of courses approved by an advisory group. Through connected study, the student not only takes a fresh approach to learning, but also develops an individualized study plan.

This program is highly recommended for those persons in education and programs leading to multicultural relations. The minor consists of a minimum of 20 credit hours including a capstone course.

A minor in African/African-American Studies requires the following:

Twenty semester hours selected from the following:

ART 341	African Art	4 sh
ENG 238	African-American Literature before 1945	4 sh
ENG 239	African-American Literature since 1945	4 sh
ENG 338	The African Experience in Literature	4 sh
ENG 359	African-American Novels	4 sh
GEO 320	Geography of Africa	4 sh
HST 313	Modern Africa	4 sh
HST 314	History of Southern Africa	4 sh
HST 363	African-American History, 1850-Present	4 sh
POL 367	Politics of Africa	4 sh

SOC 341	Ethnic and Race Relations	4 sh
AAA 361-9	Seminars in African/African-American Studies	4 sh
AAA 491	Independent Study	4 sh
TOTAL		20 sh

- AAA 361-369. SEMINARS IN AFRICAN/ AFRICAN-AMERICAN STUDIES** 4 sh
- Interdisciplinary seminars focus on modern scholarship in African and African-American Studies. Topics vary according to course theme.
- AAA 491. INDEPENDENT STUDY** 1-4 sh

Anthropology

See Sociology.

Art

Chair, Art Department: Associate Professor Hassell
Professor: Sanford
Associate Professors: Simpkins, Tucker
Assistant Professors: Fels, Ringleberg, Wood
Adjuncts: Gignoux, J. Henricks, K. Lanzoni, Magee, Rhoades, Rosenblatt-Farrell, Schaeffer, Taylor, Varry

Studio art and art history provide students with many opportunities to develop their visual awareness, engage in creative activity and to understand and critique our visual and cultural heritage. A variety of art courses are open to all students, majors and minors alike.

The studio art curriculum offers a balance of courses in art fundamentals and electives with in-depth involvement in the medium of concentration. An art major chooses a concentration in either ceramics, digital art, painting or photography and is required to produce a senior thesis exhibition in their final spring semester. All studio courses emphasize hands-on experience where confidence, skills and ideas are developed. Small classes and well-equipped work spaces provide students with the environment and tools conducive to the creative process. Students work closely with a faculty of active artists with first-hand knowledge of the medium.

Art history is a discipline that is both interdisciplinary and unique. It is interdisciplinary in that it integrates a broad range of studies in order to examine culture and history; it is unique in that it has specialized forms of analysis that are crucial to understanding the visual arts as primary sources of knowledge. In addition to training students to research and write about these issues critically, the art history minor also enriches the experience of the studio-focused student by providing greater insight into the historical and theoretical aspects of art making.

The A.B. in art requires 48 semester hours and allows art majors to pursue a minor or double major. The degree in art builds on Elon's strong General Studies program to produce creative thinkers who are prepared for further professional and educational challenges.

A major in Art requires the following courses:

ART 112	Fundamentals of Design	4 sh
ART 201	Drawing I	4 sh
ART 221	Art and History I: Prehistory to the Middle Ages	4 sh
ART 222	Art and History II: Renaissance to Contemporary	4 sh

ART 320	Issues in Contemporary Art	4 sh
ART 380	Professional Practices in Art	2 sh
ART 461	Senior Seminar	2 sh
Eight hours of art or art history, four of which must be at the 300–400 level		8 sh
Four courses in one concentration		16 sh
TOTAL		48 sh

It is recommended that ART 112, ART 201 and ART 221 or ART 222 be taken before the concentration courses.

Concentrations

Ceramics **16 sh**

- ART 200 Ceramics I
- ART 300 Ceramics II
- ART 400 Advanced Projects in Ceramics
(must be taken for two semesters)

Digital Art **16 sh**

- ART 263 Digital Art I
- ART 363 Digital Art II
- ART 463 Digital Art III
- ART 483 Digital Art IV

Painting **16 sh**

- ART 202 Painting I
- ART 302 Painting II
- ART 402 Advanced Projects in Drawing and Painting
(must be taken for two semesters)

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Photography **16 sh**

- ART 205 Photography I
- ART 305 Photography II
- ART 405 Photography III
- ART 485 Photography IV

A minor in Art requires the following courses:

ART 112	Fundamentals of Design	4 sh
ART 201	Drawing I	4 sh
ART 221	Art and History I: Prehistory to the Middle Ages	4 sh or
ART 222	Art and History II: Renaissance to Contemporary	4 sh
ART 320	Issues in Contemporary Art	4 sh
Two sequential courses in one media: painting, ceramics, photography or digital art		8 sh
TOTAL		24 sh

A minor in Art History requires the following courses:

ART 221	Art and History I: Prehistory to the Middle Ages	4 sh
ART 222	Art and History II: Renaissance to Contemporary	4 sh

ART 230	Non-Western Art and History	4 sh
	Twelve semester hours of Art History electives, which must be at the 300-400 level	12 sh
TOTAL		24 sh

Multimedia Authoring minor: See Multimedia Authoring.

ART 112. FUNDAMENTALS OF DESIGN 4 sh

This introduction to the fundamental principles and processes of two-dimensional and three-dimensional design uses a variety of media. Emphasis is placed on problem-solving, craftsmanship, creative exploration and effective use of the language of art. Material fee: \$75. Offered fall and spring.

ART 200. CERAMICS I 4 sh

This introduction to principles and processes of working with clay and glazes emphasizes basic construction techniques and kiln firing. Material fee: \$75. Offered fall and spring.

ART 201. DRAWING I 4 sh

Students learn the fundamentals of drawing and composition using various media. Material fee: \$75. Offered fall and spring.

ART 202. PAINTING I 4 sh

Painting I introduces the techniques of painting and composition in oils, with additional emphasis on color theory and creative exploration of the medium. Material fee: \$100. Offered fall and spring

ART 203. WATERCOLOR 4 sh

Course work studies various techniques of painting and composition with watercolor, emphasizing color theory and creative exploration of the medium. Material fee: \$40.

ART 205. PHOTOGRAPHY I 4 sh

Photography I introduces students to the techniques, processes and language of photography. Emphasis is placed on the expressive qualities of the medium by making pictures that communicate individual experiences and ideas. Laboratory experience included. No prior experience necessary; students must provide a 35mm camera. Lab fee: \$100. Offered fall and spring.

ART 221. ART AND HISTORY I: PREHISTORY TO THE MIDDLE AGES 4 sh

This is an introductory survey of the visual arts of Western culture from prehistory through the Middle Ages, emphasizing major works of art, their creators and their contexts. We will discuss the categorization of art through style, chronology and ideology. No prerequisite.

ART 222. ART AND HISTORY II: RENAISSANCE TO CONTEMPORARY 4 sh

This is an introductory survey of the visual arts of Western culture from the Renaissance through the present, emphasizing major works of art, their creators and their contexts. We will discuss the categorization of art through style, chronology and ideology. No prerequisite.

ART 230. NON-WESTERN ART AND HISTORY 4 sh

This course presents an overview of the arts of non-European or European-descended peoples. It may include cultures from the following regions: Africa, Oceania, Native North America, Pre-Hispanic Central and South America, and Asia. Coursework will consider artistic styles, contexts and use of objects and how those objects, styles and cultures fit into a broader discourse on art, history and culture. No prerequisite.

ART 261. COLOR IN ART**2 sh**

Color is probably the visual artist's most powerful tool. To use this tremendous potential, all artists must explore its many aspects. In a studio setting, students will explore a variety of materials, color mixing, color perceptions and color interactions. The historical, psychological and cultural connections to color will also be addressed. No prerequisite. Material fee: \$40.

ART 263. DIGITAL ART I**4 sh**

This course provides an introduction to the computer, software and related peripherals as tools in service of the creation of artwork. Digital Art I covers the basic elements of visual language and design and introduces students to the possibilities of this emerging medium through examples of work by professional artists, illustrators and designers. Students will conceive and produce artwork, develop critical thinking skills and learn how to conduct research on topics related to technologies in the arts. Material fee: \$100. Offered fall and spring.

ART 300. CERAMICS II**4 sh**

Students continue from ART 200, with emphasis on wheel-thrown forms, glaze mixing, kiln firing and studio management. Prerequisite: ART 200. Material fee: \$75.

ART 301. DRAWING II**4 sh**

A continuation of ART 201, this course emphasizes composition, critical analysis and productive exploration through more extended studies in a variety of media. Prerequisite: ART 201. Material fee: \$75.

ART 302. PAINTING II**4 sh**

A continuation of ART 202, this class emphasizes individual development, advanced critical analysis of visual images and productive exploration of the medium. Prerequisite: ART 202. Material fee: \$100.

ART 305. PHOTOGRAPHY II**4 sh**

A continuation of ART 205, this course builds on the ideas and information in Photography I. More advanced techniques and a deeper understanding of the qualities and history of photography provide greater control over how photographs look and what they state. Prerequisite: ART 205. Lab fee: \$100.

ART 313. ART OF THE NINETEENTH CENTURY**2 sh**

This course will explore the political, social and creative origins of the art movements: Impressionism, Neoclassicism, Naturalism and Romanticism. The works of each group's central figures will be closely examined. No prerequisite.

ART 320. ISSUES IN CONTEMPORARY ART**4 sh**

This course considers the arts since 1945, covering the period both broadly and in selective detail to better understand how and why art in our time takes the forms it does. We will consider new approaches to creating and exhibiting art, relevant social and political issues to which artists respond and the impact of critical theory upon both the visual art, art history and criticism. Offered fall and spring.

ART 340. HISTORY OF PHOTOGRAPHY**4 sh**

This course surveys the history of the photographic arts from the development of the camera obscura to the present use of digital technologies. Issues discussed may include the role of technology in the arts; scopophilia and voyeurism; the use of photography in science, government, propaganda and advertising; perceptions of objective reality and manipulation in the photographic image; reproducibility, time and movement; and personal/amateur photography. No prerequisite.

ART 341. AFRICAN ART**4 sh**

This course presents a selective survey of the arts of sub-Saharan Africa. It examines artistic production through a variety of media – sculpture, painting, architecture, per-

formance and personal decoration – and a myriad of social contexts – initiation, religious ceremony, political and royal institutions, domestic arenas, cross-cultural exchanges and colonialism. No prerequisite.

ART 343. RENAISSANCE ART HISTORY

4 sh

This course provides an introduction to the art of painting, architecture and sculpture of the Italian and Northern Renaissance. The examination of this fundamental time period in the history of art provides the opportunity for investigating the relation between art and its rich social, political and cultural backdrops, as well as understanding how currents that emerged in the Renaissance have influenced our perceptions of society and art and the way in which we view art and its makers. No prerequisite.

ART 363. DIGITAL ART II

4 sh

In this course students continue to build on the skills and ideas introduced in ART 263 with the addition of digital photography, alternative materials, interactivity, animation and Web design. Students further investigate the creative potential of the computer through projects that integrate advanced software tools with strategies for creating complex imagery and are introduced to new software in the production of Web-related artwork. Students continue their critical inquiry into the medium through required readings and research. Prerequisite: ART 263. Material fee: \$100.

ART 380. PROFESSIONAL PRACTICES IN ART

2 sh

This course provides practical information for advanced students considering a career in art. Topics covered include: documenting artwork; writing resumes, artist statements and cover letters; developing skills in presentation, promotion and exhibition preparation; applying to graduate school and preparing for other postgraduate opportunities. Junior standing art majors or instructor permission required. Offered fall.

ART 400. ADVANCED PROJECTS IN CERAMICS

4 sh

A continuation of ART 300, emphasis in this course is on increased individual exploration of a single form-making process, glaze calculation and kiln firing. Prerequisite: ART 300. Material fee: \$75. May be repeated a maximum of three times for credit.

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ART 402. ADVANCED PROJECTS IN DRAWING AND PAINTING

4 sh

This continuation of ART 302 emphasizes increased individual exploration of the medium and the development of a focused body of work. Prerequisite: ART 302. Material fee: \$100. Offered fall. May be repeated a maximum of three times for credit.

ART 405. PHOTOGRAPHY III

4 sh

This course continues ART 305 with a semester-long project proposed and developed by each student, concluding in a portfolio. Course emphasis is on individual participation through class presentations on techniques and issues in contemporary photography. Prerequisite: ART 305. Lab fee: \$100.

ART 461. SENIOR SEMINAR

2 sh

Senior Seminar is intended to broaden the senior art major's perspective on art-making through an investigation of significant topical issues. Reading, discussions and writing about these alternative views will help us understand that creativity is something that not only emanates from within ourselves, but is also a phenomenon that is heavily influenced by external forces. Spring semester only.

ART 463. DIGITAL ART III

4 sh

This course continues ART 363 with the introduction of advanced tools in Web site design, animation, virtual reality and multimedia authoring. Students continue their critical inquiry into the medium through required readings and discussions and will learn how to explore and critique interactive multimedia artworks. Prerequisite: ART 363. Material fee: \$100.

ART 481. INTERNSHIP IN ART

1-4 sh

This course for art majors and minors may only be taken with the permission of the

department head and supervising instructor.

ART 483. DIGITAL ART IV

4 sh

This course continues ART 463 with a portfolio project which emphasizes intense individual exploration of digital media resulting in a unified body of work that includes supporting materials such as an artist statement and electronic presentation of work. Materials fee: \$100.

ART 485. PHOTOGRAPHY IV

4 sh

Photography IV is a self-directed involvement in a long-range photographic project proposed, researched and executed in consultation with the instructor/mentor. The project should reflect the student's knowledge and experience in the medium and culminate in a coherent portfolio for exhibition or publication. Materials fee: \$100.

ART 491. INDEPENDENT STUDY STUDIO

1-8 sh

Art majors and minors may pursue a program of advanced study and individual exploration in a selected medium. Proposals for independent studio should be prepared and submitted in the semester prior to enrollment. The instructor may require class attendance. Maximum 8 semester hours of credit, by permission of art faculty only.

ART 499. RESEARCH IN ART

1-8 sh

Students engage in an undergraduate research project under the guidance of an Art Department mentor. A special research proposal form must be prepared and submitted in consultation with the mentor. Maximum of 8 semester hours of credit.

Asian/Pacific Studies

Coordinator: Professor Digre

The vast area of the Pacific Rim is of major importance in political, economic and cultural terms. This program aids students to shift from an Atlantic to a Pacific perspective, to focus on some particular Asian/Pacific cultures, and to take first steps not only in seeing Asia with Western eyes but also in seeing the West through Asian eyes.

Asian/Pacific Studies takes an interdisciplinary approach to study the peoples and cultures of Asia and the Pacific Rim. The program allows students to select from a current group of courses approved by an advisory group.

The minor consists of a minimum of 20 credit hours. The Asian/Pacific Studies program may be expanded into an international studies major with Asian/Pacific Studies as a regional concentration. See note.

Foreign language study (e.g., Japanese or Chinese) is strongly recommended as is a study abroad experience in the region.

A minor in Asian/Pacific Studies requires 20 semester hours selected from the following list. Courses must be chosen from at least two disciplines.

General Asian/Pacific Studies courses

ENG 337	Asian Literature of Social Change	4 sh
ENS 310	Environmental Issues of Southeast Asia	4 sh
HST 320	China, Japan and the Pacific Century: Era of War and Revolution	4 sh

POL 363	Politics of Asia	4 sh
PHL 352	Eastern Philosophy	4 sh
REL 353	Buddhism	4 sh
REL 356	Hinduism	4 sh
SOC 329	Peoples & Cultures of Southeast Asia	4 sh
SOC 344	Socio-Cultural Change in India	4 sh
APS 361-369	Seminars in Asian/Pacific Studies	2-4 sh
APS 481	Internship in Asian/Pacific Studies	1-4 sh

Asian/Pacific Foreign Language Courses

While not required for the minor, up to 8 semester hours of the courses below may count toward the minor.

CHN 121	Elementary Chinese I	4 sh
CHN 122	Elementary Chinese II	4 sh
CHN 221	Intermediate Chinese I	4 sh
JPN 121	Elementary Japanese I	4 sh
JPN 122	Elementary Japanese II	4 sh
JPN 221	Intermediate Japanese I	4 sh

Study Abroad in the Region

While not required for the minor, up to 4 semester hours of such study abroad may count for the minor.

Approved course lists for study abroad in Asia and the Pacific Rim may be obtained from the program coordinator.

TOTAL

20 sh

Note: If they choose, students can extend the minor into an international studies major, with a regional concentration in Asia and the Pacific Rim. In this way, the minor supports the international studies major by providing focus for a regional concentration and opportunity to acquire language skills. For details and other requirements, see International Studies.

Athletic Training

Chair, Department of Health and Human Performance: Professor J.P. Brown

Professors: Beedle, Calhoun

Associate Professors: Davis, Miller

Assistant Professors: Baker, Hall, Smith

Instructors: Allen, Calone, Myers, Stevens

The Athletic Training Education Program (ATEP) major located within the Health and Human Performance (HHP) Department includes clinical education and internship experiences within a CAAHEP approved curriculum. Admission into the ATEP requires a separate application process that is outlined in the ATEP application packet which can be obtained through the HHP Department.

Upon completion of the curriculum, students are eligible to sit for the NATA-BOC certification exam. Graduates of this program may pursue careers in athletic training or graduate degrees in other allied health professions after satisfying the appropriate prerequisites.

A major in Athletic Training Education requires the following courses:

ATP 112*	Athletic Training I	4 sh
ATP 212	Athletic Training II	4 sh
ATP 301	Clinical Education I	2 sh
ATP 302	Clinical Education II	2 sh
PED 305	Legal Aspects	2 sh
ATP 311	Introduction to Pharmacology	2 sh
ESS 315	Advanced Strength Training Conditioning	4 sh
ATP 329	Assessment of Athletic Injuries	4 sh
ATP 330	Therapeutic Exercise/Rehabilitation	4 sh
ATP 401	Clinical Education III	2 sh
ATP 402	Clinical Education IV	2 sh
ESS 422	Physiology of Exercise	4 sh
ATP 430	Therapeutic Modalities	4 sh
ATP 481	Internship	2 sh
ATP 495	Senior Seminar	2 sh
PED 321	Biomechanics	4 sh
PED 410	Organization and Administration	4 sh
HED 220	First Aid	1 sh
HED 324	Nutrition	4 sh
HED 421	Chronic and Acute Diseases	4 sh
BIO 161*	Human Anatomy	4 sh
BIO 162	Human Physiology	4 sh
PSY 111	General Psychology	4 sh

TOTAL	73 sh
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*Courses required for ATEP application.

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ATP 112. ATHLETIC TRAINING I **4 sh**

This course introduces the student to the profession and principles of athletic training, including topics such as sports medicine organizations, emergency care of specific injuries, emergency procedures, tissue repair and healing, transportation and transfer of catastrophic injuries, methods of bandaging and dressing wounds and adhesive taping. Offered fall and spring.

ATP 212. ATHLETIC TRAINING II **4 sh**

Students will gain practical knowledge and hands-on experience of advanced skills and techniques of athletic training. Topics include but are not limited to: protective sports devices and equipment; drugs and sports; skin disorders; specific sports conditions and injuries, and advanced taping skills. Prerequisites: ATP 112, BIO 161, admission to the athletic training education program or permission of instructor. Offered fall.

ATP 301. CLINICAL EDUCATION I **2 sh**

This course is the first in a progressive series of four clinical education courses and is intended to apply theories learned in ATP 212 assessment and previous athletic training classes in a clinical setting. Outcome-based assessments of clinical skills will be performed to determine duties and responsibilities in each setting. Athletic training students are exposed to the practice of athletic training and are supervised by practicing

certified athletic trainers. Rotations with medical doctors and other allied medical professionals will also be completed as a learning opportunity and to obtain a sense of where certified athletic trainers fit into the sports medicine team. Prerequisite: ATP 212. Offered spring.

ATP 302. CLINICAL EDUCATION II

2 sh

This course is the second in a series of four clinical education courses. The athletic training student continues to practice and improve clinical decision-making skills by building upon Clinical Education I. Outcome-based assessments of clinical skills will be performed to determine duties and responsibilities in each setting. These students are further exposed to the practice of athletic training and are supervised by practicing certified athletic trainers. Prerequisite: ATP 301. Offered fall.

ATP 311. INTRODUCTION TO PHARMACOLOGY

2 sh

This course is designed as an introduction to pharmacology. Pharmacodynamics, pharmacokinetics, and drug interactions and reactions will be discussed. Extra attention will be given to drugs commonly used in sports medicine including but not limited to: PNS- and CNS-acting, anti-inflammatory, antibiotics, gastrointestinal-acting, respiratory-acting and ergogenic aids. An understanding of the practical implication of using these drugs will be emphasized. Prerequisite: BIO 162 or permission of instructor. Offered fall of odd years.

ATP 329. ASSESSMENT OF ATHLETIC INJURIES

4 sh

This course familiarizes students with the principles of assessing sport injuries, including injury history, inspection, palpation, range of motion tests, muscle function tests, joint stability, neurological tests and specific anatomical features. This course is designed with a lecture and laboratory component. Prerequisites: ATP 212, admission to the athletic training education program or permission of instructor. Offered fall.

ATP 330. THERAPEUTIC EXERCISE AND REHABILITATION

4 sh

Students study the process and components of therapeutic rehabilitation. Emphasis is placed on deconditioning and reconditioning following injury, as well as the contribution of various forms of exercise and therapeutic techniques on recovery. Prerequisites: ATP 329, admission to the athletic training education program or permission of instructor. Offered spring.

ATP 401. CLINICAL EDUCATION III

2 sh

This course is the third in a series of four clinical education courses. The athletic training student continues to practice and improve clinical decision-making skills by building upon ATP 302 and ATP 329. Students are given more responsibility and required to problem solve and improve their decision-making abilities in a practical setting while under the supervision of a practicing certified athletic trainer. Outcome-based assessments are performed to determine duties and responsibilities in each setting. Prerequisite: ATP 302. Offered spring.

ATP 402. CLINICAL EDUCATION IV

2 sh

This course is the fourth in a series of clinical education courses. It is intended to be a capstone course to bring together all of the theories and skills learned in the classroom and clinical education courses and apply them in a practical setting under the supervision of a working professional. This course is intended to provide the student the opportunity to show mastery of the skills needed to function as a successful certified athletic trainer through outcome-based assessments. Successful completion of this course is required to sit for the NATA-BOC certification exam. Prerequisite: ATP 401. Offered fall.

ATP 430. THERAPEUTIC MODALITIES

4 sh

This course is designed to cover topics in therapeutic modalities as they relate to athletic training. It is directed towards students who plan on pursuing careers in athletic

training and/or physical therapy. The main topics discussed in this class will be the theory workings, application and use of therapeutic modalities in the rehabilitation of sports injuries, and the effect of therapeutic modalities on both the stages of healing and pain process. Prerequisites: ATP 330, admission to the athletic training education program or permission of instructor. Offered fall.

ATP 481. INTERNSHIP IN ATHLETIC TRAINING

2-4 sh

In this course, upper level majors have opportunities to apply classroom knowledge and skills to real world problems under the supervision of a faculty member and a certified athletic trainer. Settings may include a sports medicine clinic, professional sports team, corporate setting, etc. Students must keep a daily journal of their experiences, which are discussed in conferences with the faculty supervisor. The student must also complete a project benefiting the internship facility, but which would not have been possible without the student. Student evaluations are based on these assignments. Students should make arrangements with their professors the semester prior to taking the internship. Prerequisites: ATP 329, 330; junior/senior majors only; permission of department; 2.0 GPA overall, 2.0 GPA in major. Offered fall, winter, spring and summer.

ATP 491. INDEPENDENT STUDY

1-4 sh

ATP 495. SENIOR SEMINAR IN ATHLETIC TRAINING

2 sh

This course is designated to be the capstone class for the athletic training major. The course will review acquired knowledge and experiences of the athletic training curriculum. Students will be prepared to sit for the NATA-BOC certification exam. Students will discuss moral and ethical responsibility, state licensure, continuing education, decision-making accountability and conflict management. The NATA professional code of practice and standards of practice will be reviewed. Resume and interview skills will be discussed. Prerequisite: senior majors only. Offered spring.

ATP 499. RESEARCH IN ATHLETIC TRAINING

1-4 sh

Independent research project supervised by faculty mentor.

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Biology

Chair, Department of Biology and Allied Health: Associate Professor Kingston

Professors: H. House, S. House

Associate Professors: Carloye, M. Clark, Haenel, N. Harris, MacFall, Seidel, Vick

Assistant Professors: Coker, Gallucci, Niedziela, Stenke, Touchette

Adjuncts: DeVries, Hoiland, Vandermaast

Biology is the study of life in all its diverse forms. As a species, we have always been deeply fascinated by other living creatures. Early human's dependence on other animals and plants for food, medicine, and shelter fostered an appreciation for life's interconnectedness. Modern society has rediscovered these relationships in the face of such challenges as global warming, rain forest destruction, AIDS, rising cancer rates and industrial pollution.

Our approach to biology at Elon University stresses hands-on experiences in the classroom, laboratory and field. The course of study includes off-campus experiential opportunities and research seminars that encourage creative approaches to biological problems. The focus is on science as a process, not merely a collection of established facts.

The faculty strives to provide students with a high quality program that enables them to (1) develop critical thinking and problem-solving skills to better understand and meet present and future biological challenges; (2) develop competency in information retrieval, use and analysis; (3) develop an understanding of the latest technologies utilized in biological investigation; (4) acquire broad-based knowledge of biological concepts from molecules

to ecosystems; and (5) acquire an experiential learning opportunity through either research, internship or laboratory assistantship.

The Bachelor of Science in Medical Technology (MT) consists of three years of preprofessional training at Elon followed by application to the 12-month clinical program at our affiliated hospital. Admission to the affiliated program is competitive and based on overall GPA, evaluation by faculty and personal interviews. Students may also apply to a variety of Medical Technology programs once a bachelor's degree is completed with the appropriate prerequisites.

In all of Elon's biology offerings, students receive a strong foundation in biology that prepares them for graduate studies, medical and other allied health-related professional schools, teaching and industry.

The Department of Biology and Allied Health offers programs leading to the Bachelor of Arts or Bachelor of Science degree with a major in Biology, the Bachelor of Science degree with a major in Medical Technology, and a minor concentration in biology for students majoring in another discipline.

The Department of Biology has divided its laboratory course offerings that serve as electives into three functional categories to assist students in the development of a broad-based major with the necessary fundamental biological concepts while at the same time providing the student with the flexibility to build a program that meets their individual interests and needs.

Molecular/Cellular Biology	Organismal Biology	Supraorganismal Biology
BIO 322	BIO 316 BIO 343	BIO 335
BIO 345	BIO 318	BIO 344
BIO 348	BIO 321	BIO 442
BIO 351	BIO 325	BIO 452
BIO 352	BIO 342	

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Both the Bachelor of Arts and the Bachelor of Science degrees in Biology require the following **Core Courses:**

BIO 111	Introductory Cell Biology	3 sh
BIO 112	Introductory Population Biology	3 sh
BIO 113	Cell Biology Lab	1 sh
BIO 114	Population Biology Lab	1 sh
BIO 221	General Zoology	4 sh
BIO 222	General Botany	4 sh
BIO 261	Introductory Seminar	2 sh
BIO 322	Molecular and Cellular Biology	4 sh
One course selected from the Organismal Biology category:		4 sh
BIO 316	Developmental Biology	
BIO 318	Comparative Vertebrate Structure & Function	
BIO 321	Microbiology	
BIO 325	Human Histology	
BIO 342	Plant Physiology	
BIO 343	Clinical Anatomy	
One course selected from the Supraorganismal Biology category:		4 sh
BIO 335	Field Biology	

BIO 344	Evolution	
BIO 442	Aquatic Biology	
BIO 452	General Ecology	
Eight semester hours of electives selected from the following:		8 sh
Organismal Biology category		
Supraorganismal Biology category		
Molecular/Cellular Biology category		
This may include a maximum of two 2-semester hour special topics seminars.		
BIO 462	Senior Seminar	2 sh
TOTAL		40 sh

A Bachelor of Arts degree in Biology requires the following courses:

Core Courses in Biology		40 sh
CHM 111	General Chemistry I	3 sh
CHM 113	General Chemistry I Lab	1 sh
CHM 112	General Chemistry II	3 sh
CHM 114	General Chemistry II Lab	1 sh
or (in lieu of CHM 111, 113, 112, 114)		
CHM 115	Advanced General Chemistry (3 sh)	
CHM 116	Advanced General Chemistry Lab (1 sh)	
MTH 112	General Statistics	4 sh

In addition, a required experiential component selected from the following:

- (a) internship
- (b) research
- (c) a specialized approved laboratory assistantship.

TOTAL	48-52 sh
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A Bachelor of Science degree in Biology requires the following courses:

Core Courses in Biology		40 sh
CHM 111	General Chemistry I	3 sh
CHM 113	General Chemistry I Lab	1 sh
CHM 112	General Chemistry II	3 sh
CHM 114	General Chemistry II Lab	1 sh
or (in lieu of CHM 111, 113, 112, 114)		
CHM 115	Advanced General Chemistry (3 sh)	
CHM 116	Advanced General Chemistry Lab (1 sh)	
CHM 211	Organic Chemistry I	3 sh
CHM 212	Organic Chemistry II	3 sh
CHM 213	Organic Chemistry I Lab	1 sh
CHM 214	Organic Chemistry II Lab	1 sh
PHY 111	General Physics I	4 sh
PHY 112	General Physics II	4 sh
or		
PHY 113	General Physics I with Calculus	4 sh
PHY 114	General Physics II with Calculus	4 sh
MTH 112	General Statistics	4 sh

In addition, a required experiential component selected from:

- (a) internship
- (b) research
- (c) a specialized approved laboratory assistantship.

TOTAL **64-68 sh**

A Bachelor of Science degree in Medical Technology requires 40-44 semester hours of course work at Elon University and completion of the clinical curriculum.

BIO 111	Introductory Cell Biology	3 sh
BIO 112	Introductory Population Biology	3 sh
BIO 113	Cell Biology Lab	1 sh
BIO 114	Population Biology Lab	1 sh
BIO 321	Microbiology	4 sh
BIO 345	Genetics	4 sh
CHM 111	General Chemistry I	3 sh
CHM 113	General Chemistry I Lab	1 sh
CHM 112	General Chemistry II	3 sh
CHM 114	General Chemistry II Lab	1 sh

or (in lieu of CHM 111, 113, 112, 114)

CHM 115	Advanced General Chemistry (3 sh)	
CHM 116	Advanced General Chemistry Lab (1 sh)	
CHM 211	Organic Chemistry I	3 sh
CHM 212	Organic Chemistry II	3 sh
CHM 213	Organic Chemistry I Lab	1 sh
CHM 214	Organic Chemistry II Lab	1 sh
PHY 111	General Physics I	4 sh
PHY 112	General Physics II	4 sh
MTH 112	General Statistics (or higher)	4 sh
A course in immunology; Immunology as a separate course or as part of a microbiology course		0-3 sh

Recommended additional courses:

- CHM 311 Quantitative Analysis
- CIS 112 Problem Solving with Spreadsheet Applications
- CIS 114 Introduction to Web Site Development
- BIO 162 Human Physiology
- BUS 303 Introduction to Managing

A mathematics course higher than MTH 112

Completion of the clinical curriculum

TOTAL **40-47 sh**

A minor in Biology requires the following courses:

BIO 111	Introductory Cell Biology	3 sh
BIO 113	Cell Biology Lab	1 sh

Sixteen semester hours chosen from the following: 16 sh

- BIO 112 Introductory Population Biology
- BIO 114 Population Biology Lab
- Biology courses at the 200-400 level

TOTAL **20 sh**

- BIO 101. TOPICS IN GENERAL BIOLOGY** 3 sh
This topical approach to the foundational concepts of biology examines theories and issues in biology as they relate to varying special topics selected by the instructor. To satisfy the general studies laboratory science requirement, BIO 102 should be taken concurrently. No credit to students with prior credit for BIO 111. No credit toward biology major or minor. Offered fall and spring.
- BIO 102. GENERAL BIOLOGY LABORATORY** 1 sh
This two-hour laboratory provides experiences to complement selected foundational concepts from BIO 101. To satisfy the general studies laboratory science requirement, BIO 101 and 102 should be taken concurrently. No credit to students with prior credit for BIO 113. No credit toward biology major or minor. Offered fall and spring.
- BIO 105. CURRENT ISSUES IN BIOLOGY** 4 sh
Designed for nonscience majors, this course focuses on reading, interpreting and evaluating facts behind biological issues and exploring the implications for science and human society. Students conduct library research, present oral reports, discuss and write papers on these issues. No credit toward biology major or minor. Satisfies General Studies nonlaboratory science requirement. Offered winter.
- BIO 111. INTRODUCTORY CELL BIOLOGY** 3 sh
In this introduction to organization and function at the cellular level, topics of study include basic cell chemistry and structure, transport, energetics and reproduction. Required for biology majors/minors. Corequisite: BIO 113. Offered fall and spring.
- BIO 112. INTRODUCTORY POPULATION BIOLOGY** 3 sh
Topics of study in this introduction to organization and function at the population level include reproduction and transmission genetics, patterns and mechanics of evolutionary change and basic concepts of ecology. Required for biology majors/minors. Corequisite: BIO 114. Offered fall and spring.
- BIO 113. CELL BIOLOGY LABORATORY** 1 sh
Students have three hours of laboratory experience per week with topics complementing concurrent study in BIO 111. Required for biology majors/minors. Corequisite: BIO 111. Offered fall and spring.
- BIO 114. POPULATION BIOLOGY LABORATORY** 1 sh
Students have three hours of laboratory experience per week with topics complementing concurrent study in BIO 112. Required for biology majors/minors. Corequisite: BIO 112. Offered fall and spring.
- BIO 161. HUMAN ANATOMY** 4 sh
This course builds a basic foundation in regional human anatomy. Lectures emphasize macroscopic and some microscopic studies of the human body. Special emphasis will be placed on musculoskeletal and neuromuscular anatomy. Laboratory involves progressive anatomical dissections of human cadavers, use of human anatomy instructional software and examination of osteological models. Three class hours, 1 laboratory per week. No credit toward BIO major/minor. Offered fall and spring.
- BIO 162. HUMAN PHYSIOLOGY** 4 sh
This study of human physiology emphasizes skeletal, muscular, nervous, endocrine, heart, blood, respiratory, digestive and urinary aspects. Three class hours, one laboratory per week. No credit toward biology major or minor. Offered fall and spring.
- BIO 181. BIOLOGY LABORATORY TECHNIQUES** 2 sh
Skills taught in this training course for prospective laboratory assistants include laboratory procedures, materials preparation and grading procedures. Offered spring.

BIO 215. ORGANISMAL BIOLOGY AND FIELD TECHNIQUES**4 sh**

This course examines the basic concepts of biological form and function and the fundamentals of organismal systematics with a focus on herbaceous and woody plants, invertebrates and microbial ecology. Students investigate the natural history of local species and their role in community dynamics. Laboratory experiences emphasize keying and identification, field methodologies of specimen collection and preservation, sampling techniques and population estimation procedures for terrestrial and aquatic ecosystems. Satisfies the General Studies lab science requirement. No credit toward the major. Prerequisites: ENS 111/113 or BIO 112/114. (BIO 215 is cross-listed with ENS 215.) Offered spring.

BIO 221. GENERAL ZOOLOGY**4 sh**

Students survey the animal kingdom (emphasizing selected vertebrates and invertebrates) investigating basic concepts of morphology, anatomy, physiology and taxonomy as they affect the ecology of the animal. Three class hours, one laboratory per week. Prerequisites: BIO 111, 112, 113, 114. Offered fall and spring.

BIO 222. GENERAL BOTANY**4 sh**

This survey of the plant kingdom (emphasizing vascular plants) includes general morphology, anatomy, physiology of metabolism and growth, economic importance and identification. Three class hours, one laboratory per week. Prerequisites: BIO 111, 112, 113, 114. Offered fall and spring.

BIO 261. INTRODUCTORY SEMINAR**2 sh**

Students learn to use primary information sources and gain practice in manual and computer information retrieval, read and interpret research and review papers, write abstracts and present scientific information orally. Recommended for sophomore year. Offered fall.

BIO 271. SPECIAL TOPICS SEMINAR**2-4 sh**

Study focuses on one biological topic per seminar in this nonlaboratory discussion course for biology majors. Topics are determined by student and faculty interest. Must have instructor's consent. Offered winter.

BIO 316. DEVELOPMENTAL BIOLOGY**4 sh**

This course examines the changes that occur at the cellular and subcellular level as a single-cell zygote develops into a multi-cellular organism. Topics include fertilization, blastula formation, gastrulation and organogenesis. Three class hours, one laboratory per week. Prerequisites: BIO 221; CHM 111, 112, 113, 114 or CHM 115/116. Offered spring of even-numbered years.

BIO 318. COMPARATIVE VERTEBRATE STRUCTURE AND FUNCTION**4 sh**

This course is an evolutionary approach to the form and function of vertebrates. Students will investigate a diversity of traits and follow the evolutionary changes of these traits from the earliest vertebrates to mammals. The primary focus is on the move from aquatic to terrestrial habitats, the evolution of flight and the evolution of endothermy. Students will compare changes in form and function of the major organ systems through laboratory dissection of the jawless fish, shark, amphibian and mammal. Prerequisites: BIO 112, 114, 221. Offered fall of even-numbered years.

BIO 321. MICROBIOLOGY**4 sh**

In a general survey of microorganisms, study emphasizes bacteria, their cytophysiological characteristics and classification, viruses, microbial diseases and immunity, and the role of microorganisms in human affairs. Three class hours, one laboratory per week. Prerequisites: BIO 111, 113; CHM 111, 112, 113, 114 or CHM 115/116. Junior standing or consent of instructor. Offered spring of even-numbered years.

BIO 322. MOLECULAR AND CELLULAR BIOLOGY**4 sh**

This course is a study of the structure and function of prokaryotic and eukaryotic cells at the molecular level. It examines in depth specific biochemical pathways and processes essential to life. Topics include considerable coverage of the principles, techniques and applications of molecular genetics. Three class hours, one laboratory per week. Junior standing or consent of instructor. Prerequisites: BIO 111, 112, 113, 114; CHM 111, 112, 113, 114 or CHM 115/116. Offered fall and spring.

BIO 325. HUMAN HISTOLOGY**4 sh**

Students survey human body tissues (especially of the cardiovascular, alimentary, respiratory, urinary and reproductive systems), stressing tissue identification and the relationship of microanatomy to physiology of the human body. Three class hours, one laboratory per week. Prerequisites: BIO 111, 113. Offered fall of odd-numbered years.

BIO 335. FIELD BIOLOGY**4 sh**

In this field-oriented course, restricted to selected natural taxa, environments or biological phenomena, in-depth field study may include identification, classification, life histories and relationships among organisms. Prerequisite: consent of instructor. Offered winter and/or summer.

BIO 342. PLANT PHYSIOLOGY**4 sh**

Topics in this study of the life processes of plants include photosynthesis, mineral nutrients, movement of materials, plant growth substances and senescence. Three class hours, one laboratory per week. Prerequisites: BIO 222; CHM 111, 112, 113, 114 or CHM 115/116. Offered spring of odd-numbered years.

BIO 343. CLINICAL ANATOMY**4 sh**

This course uses the regional approach to build a strong foundation in human anatomy. Lectures emphasize structure, basic clinical concepts and some functional and mechanical relationships at the gross anatomical level. Laboratory includes dissection of human cadavers, use of human anatomy instructional software, examination of osteological models and applications of basic radiology. Three class hours, one laboratory per week. Prerequisites: BIO 221; CHM 111, 112, 113, 114 or CHM 115/116. Offered fall of even-numbered years.

BIO 344. EVOLUTION**4 sh**

In this course students investigate the causes, rates and implications of evolutionary change in biological systems. Evolution by natural selection is the unifying theory of biology linking phenomena that occur at many different levels of biological organization. Thus, natural selection is studied in depth. Other topics include speciation, rates of molecular change, causes of mass extinctions and sexual selection. Three lecture hours, one laboratory per week. Prerequisites: BIO 112 and BIO 114. Offered fall of even-numbered years.

BIO 345. GENETICS**4 sh**

Students are introduced to Mendelian and molecular principles of genetics and the applications of these principles to the modern world. Three class hours, one laboratory per week. Prerequisites: BIO 111, 112, 113, 114; CHM 111, 112, 113, 114 or CHM 115/116. Offered fall of odd-numbered years.

BIO 348. BIOTECHNOLOGY**4 sh**

Students explore how biological systems are utilized in scientific research. In collaboration with their peers, students will apply the techniques of molecular biology (restriction digestion, transformation, DNA hybridization, PCR, etc.) to investigate a research question. Emphasis will be placed on protocol design, solution preparation and critical analysis of research data. Additionally, the social context of biotechnology will be investigated as students explore the risks and rewards in this expanding field. Two laboratory periods, one class hour per week. Prerequisite: BIO 345 or 322. Offered spring of odd-numbered years.

BIO 351. BIOCHEMISTRY**3 sh**

In this survey of biochemistry as it relates to the physiology of organisms, study includes biochemical methodology; buffers, proteins (structure, function and synthesis), enzymes, bioenergetics, anabolism and catabolism of carbohydrates and lipids, and metabolic regulation. Three class hours, one laboratory per week. Prerequisites: CHM 211, 212, 213, 214. (BIO 351 is cross-listed with CHM 351.) Offered fall of odd-numbered years.

BIO 352. BIOCHEMISTRY LABORATORY**1 sh**

Experiments in this study of laboratory techniques and principles of biochemistry as it relates to the physiology of organisms include biochemical methodology; buffers, proteins (structure, function and synthesis), enzymes, bioenergetics, anabolism and catabolism of carbohydrates and lipids, and metabolic regulation. Corequisite: BIO 351. (BIO 352 is cross-listed with CHM 352.) Offered fall of odd-numbered years.

BIO 371. SPECIAL TOPICS SEMINAR**2-4 sh**

Each seminar – a nonlaboratory discussion course for biology majors – focuses on one biological topic determined by faculty interest. Offered winter.

BIO 442. AQUATIC BIOLOGY: THE STUDY OF INLAND WATERS**4 sh**

Aquatic Biology considers the chemical, physical and biological properties of freshwater ecosystems including streams, rivers, ponds and lakes. Topics include the geomorphology of inland waters, thermal stratification, nutrient cycles, community metabolism, plankton community dynamics, seasonal succession and eutrophication resulting from human activities. Weekly laboratory meetings provide hands-on experience with the field techniques of freshwater scientists. Prerequisites for biology major: BIO 221, 222; CHM 111, 112, 113, 114 or CHM 115/116. Prerequisites for environmental studies major: BIO 112, 114, 215; CHM 111, 112, 113, 114 or CHM 115/116. Junior standing or consent of instructor. Offered spring of even-numbered years.

BIO 452. GENERAL ECOLOGY**4 sh**

Students explore ecological principles at population, community and ecosystem levels in this study of the interrelationships of organisms with their biotic and abiotic environments. Three lecture hours, one laboratory per week. Prerequisites for biology major: BIO 221, 222; CHM 111, 112, 113, 114 or CHM 115/116. Prerequisites for environmental studies major: BIO 112, 114, 215; CHM 111, 112, 113, 114 or CHM 115/116. Junior standing or consent of instructor. Offered fall.

BIO 462. SENIOR SEMINAR**2 sh**

This course provides students with the opportunity to conduct both individual and group literature research projects of their own choosing based on recently published scientific papers. Students participate in group discussions of the current literature, research and write a scientific review paper, and develop a formal oral presentation. Recommended for senior year. Offered fall.

BIO 471. SPECIAL TOPICS SEMINAR**2-4 sh**

Each seminar – a nonlaboratory discussion course for biology majors – focuses on one biological topic determined by student and faculty interest. Must have instructor's consent.

BIO 481. INTERNSHIP IN BIOLOGY**1-4 sh**

Advanced-level work experience in a biological field is offered on an individual basis when suitable opportunities can be arranged. Prerequisite: permission of department.

BIO 499. RESEARCH**1-4 sh**

Students from all levels conduct laboratory and/or field research under the direction of the biology faculty. Maximum eight semester hours total credit. Prerequisite: permission of the biology faculty.

Business Administration

The Martha and Spencer Love School of Business mission statement.

To provide instruction and experiences for our students so they graduate with the knowledge, skills and character essential for responsible business leadership in the 21st century.

Chair, Department of Business Administration: Associate Professor Valle

Professors: Burbridge, Honeycutt, Noer

Associate Professors: Baxter, Burpitt, Manring, Nienhaus, O'Mara, Paul, Powell, Schuette, Stevens, Strempek

Assistant Professors: Buechler, Cort, Hodge, Yap

The study of Business Administration at Elon University begins with a solid grounding in the traditional liberal arts and sciences. This preparation is an integral part of becoming an informed, responsible and capable business leader. An Elon education emphasizes the development of the whole person – mind, body and spirit. Business Administration courses at Elon University advance that commitment by emphasizing business knowledge acquisition, skill development through hands-on learning and experiential activities and the development of discipline, integrity and an ethic of service.

Students majoring in Business Administration at Elon University take courses in a common core representing the functional business disciplines (e.g., accounting, finance, management, marketing, MIS, etc.). They also have the opportunity to develop specialized knowledge in one of five areas of concentration: Finance, International Business, Management, Management Information Systems and Marketing.

Our coursework emphasizes active learning and appreciative inquiry. Rather than dictate a set of principles to be memorized, our programs emphasize the integration of business knowledge and the application of that knowledge to organizational problems. We emphasize hands-on learning through internships, co-op experiences, service learning and classroom instruction which engages students in the study and practice of business. Students also develop skills in written and oral communications, team-building and problem solving, and decision-making in our increasingly global business environment.

The Bachelor of Science in Business Administration (BSBA) program at Elon University emphasizes academic challenge, mature intellectual development and a lifetime of learning. Our graduates go on to leadership positions in business and industry in for-profit and not-for-profit organizations. Our graduates are prepared for a variety of assignments because they possess an extensive array of knowledge, skills and abilities.

A major in Business Administration requires the following:

At least 50% of the business credit hours required for the degree (B.S. in Business Administration) must be earned at Elon University:

MTH 116	Applied Mathematics with Calculus	4 sh or
MTH 121	Calculus and Analytic Geometry I	
ECO 201	Principles of Economics	4 sh
ECO 203	Statistics for Decision-Making	4 sh
ECO 301	Business Economics	4 sh
ACC 201	Principles of Financial Accounting	4 sh
ACC 212	Principles of Managerial Accounting	4 sh
CIS 211	Management Information Systems	4 sh
BUS 202	Business Communications	4 sh

BUS 221	Legal Environment of Business	2 sh
BUS 311	Principles of Marketing	4 sh
BUS 323	Principles of Management and Organizational Behavior	4 sh
BUS 326	Operations Management	4 sh
BUS 465	Business Policy	4 sh
FIN 343	Principles of Finance	4 sh
Sixteen to twenty semester hours of a concentration		16-20 sh
TOTAL		70 -76 sh

Concentrations

***Finance* 16 sh**

- One course from the following:
- One 300/400 level course from the Studies in Arts and Sciences course offerings (Expression, Civilization, Society or Science). The 300/400 level Studies in Arts and Sciences course selected must be taken in addition to the upper-level GST and Advanced Study courses already required, and it may not also count for any other course in the student's program of study. Advisors may assist students in selection of an appropriate course which should enhance the subject matter of the student's concentration.
- FIN 413 Advanced Managerial Finance
 - FIN 421 Investment Principles
 - FIN 419 Financial Services **or**
 - FIN 471 Seminar: Special Topics

***Marketing* 16 sh**

- One course from the following:
- One 300/400 level course from the Studies in Arts and Sciences course offerings (Expression, Civilization, Society or Science). The 300/400 level Studies in Arts and Sciences course selected must be taken in addition to the upper-level GST and Advanced Study courses already required, and it may not also count for any other course in the student's program of study. Advisors may assist students in selection of an appropriate course which should enhance the subject matter of the student's concentration.
- Three courses from the following:
- BUS 413 Integrated Marketing Communications
 - BUS 414 Marketing Research
 - BUS 415 Consumer Behavior
 - BUS 416 Global Marketing
 - BUS 417 Business-to-Business Marketing
 - BUS 419 Sales Management

***Management* 16 sh**

- One course from the following:
- One 300/400 level course from the Studies in Arts and Sciences course offerings (Expression, Civilization, Society or Science). The 300/400 level Studies in Arts and Sciences course selected must be taken in addition to the upper-level GST and Advanced Study courses already required, and it may not also count for any other course in the student's program of study. Advisors may assist students in selection of an appropriate course which should enhance the subject matter of the student's concentration.

Three courses from the following:

BUS 424	Responsible Leadership
BUS 425	Human Resource Management
BUS 427	Organizational Improvement
BUS 428	Advanced Organizational Behavior
BUS 429	Entrepreneurship/Intrapreneurship
BUS 430	International Business Management
BUS 471	Seminar: Special Topics in Management

International Business

16 sh

Two of the four courses that constitute the concentration are required:

BUS 416	Global Marketing
BUS 430	International Business

Two 300/400 level courses should be selected from outside Business Administration. At least one of these must be from the Studies in Arts and Sciences course offerings (Expression, Civilization, Society, or Science). These courses must be taken in addition to the upper level GST and Advanced Study courses already required, and may not also count for any other courses in the student's program of study. Advisors may assist students in the selection of appropriate courses which should enhance the subject matter of the IB Concentration. Courses selected are subject to approval by the IB coordinator.

Intermediate proficiency in a modern foreign language is a concurrent requirement of the concentration. Proficiency can be demonstrated either by achieving an intermediate-mid level rating on an Oral Proficiency Interview (OPI) or a Simulated Oral Proficiency Interview (SOPI), by passing a modern foreign language course at the 221 level, or by placement in the language at or above the 222 level.

Management Information Systems

20 sh

One 300/400 level course from the Studies in Arts and Sciences course offerings (Expression, Civilization, Society or Science). The 300/400 level Studies in Arts and Sciences course selected must be taken in addition to the upper-level GST and Advanced Study courses already required, and it may not also count for any other course in the student's program of study. Advisors may assist students in selection of an appropriate course which should enhance the subject matter of the student's concentration.

CIS 216	Programming in a Visual Environment
CIS 301	Database Management and Analysis
CIS 465	MIS Strategies for e-Business
CIS 325	Web Development or
CIS 330	Systems Analysis and Design

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A minor in Business Administration requires the following courses:

BUS 304	Introduction to Marketing	4 sh or
BUS 311	Principles of Marketing (prerequisite BUS 202)	
BUS 303	Introduction to Managing	4 sh or
BUS 323	Principles of Management and Organizational Behavior (prerequisite BUS 202)	
ACC 201	Principles of Financial Accounting	4 sh
FIN 303	Introduction to Finance	4 sh
ECO 201	Principles of Economics	4 sh

TOTAL

20 sh

BUS 202. BUSINESS COMMUNICATIONS**4 sh**

In addition to studying the theory and principles of good oral and written communications, students practice making oral presentations and writing business reports, letters and memoranda. Prerequisites: ENG 110 and sophomore standing. Offered fall and spring.

BUS 221. LEGAL ENVIRONMENT OF BUSINESS**2 sh**

A number of laws influence business decisions and activities. Matters relating to competitive conduct, consumer protection, accounting and financial reporting, public communications and the natural environment are regulated by widely known federal agencies. Most states also have counterpart commissions that set additional standards and rules for business regulation. U.S. businesses enjoy a remarkably free legal environment compared to many other developed markets, and certainly more free than centrally controlled economic systems. This course explores these aspects of the U.S. business scene, with comparisons across states and other nations where appropriate. Its focus is on the legal environment, not on the legal processes, torts or case law. Its appropriate audience is the business student who needs a broad, general understanding of how we govern ourselves in the marketplace. Offered fall and spring.

BUS 303. INTRODUCTION TO MANAGING**4 sh**

For non majors and business administration minors, this introductory course examines universal business processes such as goal-setting, planning, decision-making, motivation, human resource management and control which are utilized by both not-for-profit and government organizations. Sophomore standing required. No credit for both BUS 303 and BUS 323. Offered fall, winter and spring.

BUS 304. INTRODUCTION TO MARKETING**4 sh**

For non majors and business administration minors, this introductory course examines marketing principles which are applied by all organizations. Sophomore standing required. No credit for both BUS 304 and BUS 311. Offered fall, winter and spring.

BUS 311. PRINCIPLES OF MARKETING**4 sh**

This study of the marketing and distribution of goods and services includes buyer behavior, the marketing functions, commodity and industrial markets, merchandising considerations, price policies and governmental regulation of competition. Prerequisites: ECO 201 and BUS 202. Sophomore standing required. No credit for both BUS 304 and BUS 311. Offered fall and spring.

BUS 323. PRINCIPLES OF MANAGEMENT AND ORGANIZATIONAL BEHAVIOR**4 sh**

This course will prepare the student for the challenges of management and leadership in the dynamic new workplace of the 21st century. The course examines the central role of management in the efficient and effective production of goods and services. Students will learn how strategic and operational planning, job and organizational structure design and human behavior affect operations in manufacturing and service industries. Organizational behavior topics include leadership and ethics, motivation and rewards, communication and teams, and teamwork. The global dimensions of management are also emphasized. Prerequisite: BUS 202. Sophomore standing required. No credit for both BUS 303 and BUS 323. Offered fall and spring.

BUS 326. OPERATIONS MANAGEMENT**4 sh**

As a primary business function, operations plays a vital role in achieving a company's strategic plans. Since the operations function produces the goods and services, it typically involves the greatest portion of the company's people and capital assets. Customer service, product/service delivery, product/service quality and overall organizational effectiveness depend on excellence in operations. This course covers manufacturing and service process design, planning and control. Operations strategy, demand forecasting, supply chain management, facility location and design, e-commerce, capacity planning, inventory systems, scheduling and quality control are topics included in the course.

Prerequisites: ECO 203, CIS 211, BUS 323 or 303. Sophomore standing required.
Offered fall and spring.

BUS 365. BUSINESS ADMINISTRATION APPLICATIONS

4 sh

Topics vary yearly in the study of applications of business administration principles and theories in various business situations. Sophomore standing required.

BUS 366. FIELD EXPERIENCE IN BUSINESS

4 sh

This course revolves around visits to diverse local businesses and analyses of the businesses visited. Prerequisite: permission of instructor. Sophomore standing required.

BUS 413. INTEGRATED MARKETING COMMUNICATIONS

4 sh

This course focuses on the management of the communication aspects of marketing strategy. Elements of advertising, personal selling, sales promotion, direct marketing and public relations are included. The study of marketing communications includes a review of concepts from economics, behavioral sciences and social sciences, which play a role in creating, executing and evaluating promotional programs. Topics include setting communications objectives and budgets, media planning, and creative strategy, all in the context of an integrated communication program. Emphasis will be placed on appreciating the scope, strengths and weaknesses of these marketing communication tools, and particularly on how they can and should be used together. Prerequisite: BUS 311. Offered spring.

BUS 414. MARKETING RESEARCH

4 sh

Students apply various research methods used in business to gather and analyze marketing data. Possible effects and implications of the analyses are discussed in terms of the marketing and decision-making processes of businesses. Prerequisites: BUS 311 and ECO 203. Offered spring.

BUS 415. CONSUMER BEHAVIOR

4 sh

This course for the marketing concentration focuses on the application of the behavioral sciences to understand consumer behavior. Emphasis is placed on developing an appreciation for the scope of the topic, understanding the essentials underlying consumer behavior, and developing an ability to relate such understanding to important issues faced by marketing practitioners. Traditional research-oriented topics include perception, memory, affect, learning, persuasion, motivation, behavioral decision-theory, and environmental (e.g., social and cultural) influences. All topic presentations will include a discussion of practitioner-oriented managerial implications. Prerequisite: BUS 311. Offered fall.

BUS 416. GLOBAL MARKETING

4 sh

This course for the marketing concentration is designed to explore the scope of global marketing. The course examines the impact the global environment has upon marketing decisions and strategy formulations. Through analyses of different types of markets, students will develop an understanding and appreciation of how the world is "shrinking" and the influence this has on U.S. businesses, individuals, households and institutions. Students will monitor the global environment and report their findings on specific regions of the world to the class. The intent is to make students more aware of the global environment and its impact on U.S. businesses. Prerequisite: BUS 311. Offered fall.

BUS 417. BUSINESS-TO-BUSINESS MARKETING

4 sh

This course for the marketing concentration focuses on exploring and understanding business-to-business (B2B) marketing. The study of business-to-business marketing provides an opportunity for students to synthesize their knowledge of B2B or industrial marketing with other, highly-related business disciplines (accounting, finance and management) in order to move products through the supply chain from producer to the ultimate consumer. Business-to-business relationships, interfaces, strategies, problems and

performance are explored through the case method. Prerequisite: BUS 311. Offered spring.

BUS 419. SALES MANAGEMENT

4 sh

The sales management course is an analysis of professional selling practices with emphasis on the selling process and sales management, including the development of territories, determining potentials and forecasts and setting sales quotas. Prerequisite: BUS 311. Offered fall.

BUS 424. RESPONSIBLE LEADERSHIP

4 sh

This course addresses the characteristics, behaviors and responsibilities required of contemporary organizational leaders. While focusing on the traditional topics (individual differences and traits of leaders, behaviors of leaders, role of power, types and styles of leadership and theories of motivation), the student will also be introduced to some nontraditional approaches (nontraditional metaphors, leadership as an art and individual differences of followers and followership) to understanding leaders and leadership. The responsibilities of leadership will be specifically addressed in relationship to the concepts of organizational success and effectiveness, social responsibility and ethical decision-making. Prerequisite: BUS 323. Offered fall and spring.

BUS 425. HUMAN RESOURCE MANAGEMENT

4 sh

Effective human resource management is critical to the long-term value of an organization and ultimately to its success and survival. All aspects of human resource management – including how organizations interact with the environment; acquire, develop and compensate human resources; design and measure work – can help organizations meet their competitive challenges and create value. This course looks at the role of strategic human resource planning, recruitment and selection, performance management, developing and compensating human resources, the legal environment and employee relations, collective bargaining and labor relations, using technology to increase HRM effectiveness and global issues in HRM. Prerequisite: BUS 323. Offered fall.

72 BUS 427. ORGANIZATIONAL IMPROVEMENT

4 sh

This course will introduce the students to material which will cover basic productivity improvement techniques, application of these techniques in his/her work place, teaching coworkers these techniques, leading work teams in problem-solving activities and managing an organizational productivity improvement program. Prerequisite: BUS 323. Offered spring.

BUS 428. ADVANCED ORGANIZATIONAL BEHAVIOR

4 sh

This course addresses the impact of individual, group and organizational influences in human behavior within organizations. Building on the organizational behavior topics introduced in BUS 323, the focus of this course is on acquiring in-depth knowledge and developing interpersonal skills through the study and application of theories and concepts related to understanding and predicting human behavior in organizations. Personality, perception, job design and goal-setting, appraisal, group dynamics, decision-making, cooperation and conflict, organizational structure and culture, power and organizational politics, organizational learning, innovation and change management, and organizational development are topics included in the course. Prerequisite: BUS 323. Offered fall and spring.

BUS 429. ENTREPRENEURSHIP/INTRAPRENEURSHIP

4 sh

This course addresses how to go into business and several of the unique problems and circumstances encountered in establishing and operating a small business. Emphasis is also placed on the role of entrepreneurship in large firms through the study of "intrapreneurship." Special emphasis focuses on why small businesses fail and what entrepreneurs can do to minimize the influence of these forces. Family-owned business management is included as one type of small business covered. Prerequisite: BUS 323.

BUS 430. INTERNATIONAL BUSINESS MANAGEMENT**4 sh**

This course covers business management from the perspective of the current global business environment. Students examine the overall nature of international business, the foreign environments that international businesses face and the unique situations associated with doing business across international borders. Prerequisite: BUS 323. Offered fall and spring.

BUS 465. BUSINESS POLICY**4 sh**

This capstone course integrates students' experiences and previous study through case studies and simulated business decision exercises. Prerequisites: BUS 202, 311, 323; BUS 326 for Business Administration majors or ACC 336 for Accounting majors; ECO 301 (Business Administration majors only); FIN 343; and senior status. Offered fall and spring.

BUS 471. SEMINAR: SPECIAL TOPICS IN MANAGEMENT**4 sh**

This advanced study consists of readings and discussion of special topics and involves participation by students, faculty and other resource persons.

BUS 472. SEMINAR: SPECIAL TOPICS IN INTERNATIONAL BUSINESS**4 sh**

This advanced study consists of readings and discussion of special topics and involves participation by students, faculty and other resource persons.

BUS 481. INTERNSHIP IN BUSINESS ADMINISTRATION**1-8 sh**

An internship experience offers the student valuable experience in business and management. Appropriate placement must be arranged by the student with the help and support of business administration faculty and other appropriate resources.

BUS 491. INDEPENDENT STUDY**1-4 sh****BUS 499. UNDERGRADUATE RESEARCH IN BUSINESS ADMINISTRATION****1-4 sh**

Students may engage in an undergraduate research study in collaboration with a faculty sponsor.

73***Chemistry***

Chair, Department of Chemistry: Professor Grimley

Professors: Daniele, Gooch

Associate Professors: Sienerth, Wright

Assistant Professors: Karty, Ponton

Adjuncts: Bernhardt, Blackwell, Chandler, Bowling

Science Lab Manager: Weller

The Department of Chemistry offers courses of study leading to either a Bachelor of Science degree (61-65 semester hours), Bachelor of Arts degree (44-48 semester hours) or a minor in Chemistry (20-24 semester hours). Students satisfying the requirements of the Bachelor of Science degree will be certified by the American Chemical Society.

Students who major in chemistry are qualified for many pursuits. They may choose to work in the chemical industry, continue advanced studies in chemistry, take professional training in medicine, dentistry or other health-related fields, prepare to teach at the secondary level or pursue opportunities in related fields (environmental science, forensics, business and industry).

Elon's chemistry program provides the opportunity for students to engage with faculty in undergraduate research and to gain direct experience with new instrumentation using today's state-of-the-art technology. The results of the research projects are presented at local, regional and national scientific meetings.

Another key feature of the program is the introduction and use of instrumentation in the first-year general chemistry sequence and its continued emphasis throughout the chemistry curriculum. Student participation in assisting in laboratory and recitation instruction is strongly advised and supported.

A Bachelor of Science (ACS certified) degree in Chemistry requires the following courses:

CHM 111	General Chemistry I	3 sh
CHM 113	General Chemistry I Lab	1 sh
CHM 112	General Chemistry II	3 sh
CHM 114	General Chemistry II Lab	1 sh
or (in lieu of CHM 111, 113, 112, 114)		
CHM 115	Advanced General Chemistry (3 sh)	
CHM 116	Advanced General Chemistry Lab (1 sh)	
CHM 205	Inorganic Chemistry	4 sh
CHM 211	Organic Chemistry I	3 sh
CHM 213	Organic Chemistry I Lab	1 sh
CHM 212	Organic Chemistry II	3 sh
CHM 214	Organic Chemistry II Lab	1 sh
CHM 125	Chemical Literature	1 sh
CHM 311	Quantitative Analysis	4 sh
CHM 321	Instrumental Analysis	4 sh
CHM 332	Physical Chemistry I	4 sh
CHM 334	Physical Chemistry II	4 sh
CHM 351	Biochemistry	3 sh
CHM 431	Advanced Inorganic Chemistry	4 sh
CHM 432	Physical Organic Chemistry	2 sh
CHM 461	Seminar	1 sh
CHM 499	Chemistry Research	2 sh
MTH 121	Calculus & Analytic Geometry I	4 sh
MTH 221	Calculus & Analytic Geometry II	4 sh
PHY 113	General Physics I with Calculus	4 sh
PHY 114	General Physics II with Calculus	4 sh
TOTAL		61-65 sh

A Bachelor of Arts degree in Chemistry requires the following courses:

CHM 111	General Chemistry I	3 sh
CHM 113	General Chemistry I Lab	1 sh
CHM 112	General Chemistry II	3 sh
CHM 114	General Chemistry II Lab	1 sh
or (in lieu of CHM 111, 113, 112, 114)		
CHM 115	Advanced General Chemistry (3 sh)	
CHM 116	Advanced General Chemistry Lab (1 sh)	
CHM 205	Inorganic Chemistry	4 sh
CHM 211	Organic Chemistry I	3 sh
CHM 213	Organic Chemistry I Lab	1 sh

CHM 212	Organic Chemistry II	3 sh
CHM 214	Organic Chemistry II Lab	1 sh
CHM 125	Chemical Literature	1 sh
CHM 311	Quantitative Analysis	4 sh
CHM 332	Physical Chemistry I	4 sh
CHM 461	Seminar	1 sh
MTH 121	Calculus & Analytic Geometry I	4 sh
PHY 111	General Physics I	4 sh
PHY 112	General Physics II	4 sh

(Physics 113 and 114 may be substituted for Physics 111 and 112.)

Six semester hours from chemistry (at least 4 sh at the 300-400 level) 6 sh

TOTAL **44-48 sh**

A minor in Chemistry requires the following courses:

CHM 111	General Chemistry I	3 sh
CHM 113	General Chemistry I Lab	1 sh
CHM 112	General Chemistry II	3 sh
CHM 114	General Chemistry II Lab	1 sh

or (in lieu of CHM 111, 113, 112, 114)

CHM 115	Advanced General Chemistry (3 sh)	
CHM 116	Advanced General Chemistry II Lab (1 sh)	

CHM 211	Organic Chemistry I	3 sh
CHM 213	Organic Chemistry I Lab	1 sh
CHM 212	Organic Chemistry II	3 sh
CHM 214	Organic Chemistry II Lab	1 sh

Eight additional hours selected from: 8 sh

CHM 205	Inorganic Chemistry (4 sh)
CHM 305	Environmental Chemistry (4 sh)
CHM 311	Quantative Analysis (4 sh)
CHM 321	Instrumental Analysis (4 sh)
CHM 351	Biochemistry (3 sh) and
CHM 352	Biochemistry Lab (1 sh)
CHM 471-79	Special Topics in Chemistry (2-4 sh)

TOTAL **20-24 sh**

A Bachelor of Arts Degree in Chemistry/Chemical Engineering: See requirements listed in Engineering.

CHM 101. BASIC CONCEPTS IN CHEMISTRY **3 sh**

The course is designed to meet the math/science general studies requirement for non-science majors. The material covered includes atomic structure, chemical changes, descriptive chemistry of selected elements, introduction to organic chemistry and how chemistry applies to consumer products and the environment. No credit given to students with prior credit for CHM 111. No credit for major/minor. Corequisite: CHM 102. Offered fall, winter, spring.

CHM 102. BASIC CONCEPTS IN CHEMISTRY LABORATORY **1 sh**

Laboratory exercises are based upon selected foundational concepts covered in CHM

101. No credit for students with prior credit for CHM 113. No credit for major/minor. Corequisite: CHM 101. Offered fall, winter, spring.

CHM 111. GENERAL CHEMISTRY I

3 sh

This course introduces fundamental principles of chemistry with special emphasis on developing skills in quantitative reasoning. Topics include stoichiometry, nomenclature, gases, atomic structure and periodicity, theories of chemical binding and thermochemistry. Prerequisite: High school chemistry. Corequisites: MTH 111 or higher and CHM 113. Offered fall and spring.

CHM 112. GENERAL CHEMISTRY II

3 sh

The study of fundamental chemical principles continues with chemical kinetics, liquid/solid states, chemical equilibrium (gas phase and acid/base), thermodynamics and electrochemistry. Prerequisite: CHM 111. Corequisite: CHM 114. Offered spring.

CHM 113. GENERAL CHEMISTRY I LABORATORY

1 sh

The experiments offered familiarize students with basic laboratory techniques and complement topics discussed in CHM 111. Corequisite: CHM 111. Offered fall and spring.

CHM 114. GENERAL CHEMISTRY II LABORATORY

1 sh

This course involves laboratory applications of concepts and principles discussed in CHM 112. Prerequisites: CHM 111, 113. Corequisite: CHM 112. Offered spring and fall.

CHM 115. ADVANCED GENERAL CHEMISTRY

3 sh

This course explores fundamental principles of chemistry with an emphasis on understanding chemical concepts and quantitative reasoning. It consists of a brief review of stoichiometry, nomenclature, gases, thermochemistry, atomic structure and periodicity and more extensive coverage of chemical kinetics, electrochemistry, equilibrium systems, liquid/solid states and nuclear chemistry. This course is available for students who scored 4 or 5 on the AP chemistry exam and for students with exemplary scores on the Toledo exam. Prerequisites: High school chemistry. Corequisite: CHM 116. Offered fall.

CHM 116. ADVANCED GENERAL CHEMISTRY LAB

1 sh

This course involves laboratory applications of concepts and principles discussed in CHM 115 including mass spectrometry, atomic spectroscopy, molecular modeling, stoichiometry, thermochemistry, chemical kinetics, electrochemistry, equilibrium systems and liquid and solid states. Corequisite: CHM 115. Offered fall (for CHM 115 only).

CHM 125. CHEMICAL LITERATURE

1 sh

This writing-intensive course is centered around an in-depth study of the different ways in which new discoveries in chemistry are communicated to members of the profession. Topics include primary and secondary sources: journals, monographs, patents, communications and reviews as well as foremost references such as Chemical Abstracts, The Ring Index and Science Citation Index. Both classical and online search methods will be integrated into the required writing assignments. Prerequisite: CHM 211 or permission of instructor.

CHM 205. INORGANIC CHEMISTRY

4 sh

This course will be an introduction to the field of inorganic chemistry with emphasis on nuclear chemistry, classical coordination chemistry, solid state chemistry, the periodic relationships of the elements and chemical bonding, the origin of the elements and the chemistry of hydrogen and oxygen. It will also serve as an introduction to the use of physical methods of structure determination of inorganic compounds by magnetic and spectral techniques including magnetic susceptibility, UV/VIS and IR spectroscopies, NMR spectrometry and mass spectrometry. Three hours lecture, three laboratory hours per week. Prerequisites: CHM 112/114 or CHM 115/116. Offered spring.

CHM 211. ORGANIC CHEMISTRY I**3 sh**

Organic Chemistry introduces students to the chemistry of carbon compounds, including nomenclature, the influence of structure on physical/chemical properties, reaction mechanisms, stereochemistry, conformational analysis, synthesis and characteristic reactions of different organic compounds. Prerequisites: CHM 112/114 or 115/116. Corequisite: CHM 213. Offered fall.

CHM 212. ORGANIC CHEMISTRY II**3 sh**

Continuing the study of organic chemistry, this course emphasizes compounds containing oxygen or nitrogen and culminates with a survey of lipids, carbohydrates and proteins. Prerequisites: CHM 211/213. Corequisite: CHM 214. Offered spring.

CHM 213. ORGANIC CHEMISTRY I LABORATORY**1 sh**

Laboratory work includes determination of physical properties, separation of mixtures, some structure identification and synthesis of selected organic compounds.

Prerequisites: CHM 112/114 or 115/116. Corequisite: CHM 211. Offered fall.

CHM 214. ORGANIC CHEMISTRY II LABORATORY**1 sh**

Procedures include microscale synthetic methods, molecular modeling via IBM-PC and qualitative organic analysis. Prerequisites: CHM 211, 213. Corequisite: CHM 212.

Offered spring.

CHM 305. ENVIRONMENTAL CHEMISTRY**4 sh**

Environmental Chemistry provides a survey of chemical topics applying to selected pollutants in the air, water and soil. Such topics include production and diffusion, photochemical processes, techniques for analysis, acid-base and redox chemistry, environmental and biological effects. Laboratory work includes acid/base and buffer chemistry, analysis of heavy metal pollutants sampling techniques and resistance of selected materials to certain pollutants. No credit toward B.S. degree. Prerequisites: CHM 211/213.

Offered spring of alternate years.

CHM 311. QUANTITATIVE ANALYSIS**4 sh**

This course introduces chemical methods of quantitative analysis, including classical, volumetric and selected instrumental methods, a discussion of error and uncertainty in measurements, and elementary statistics. Discussion also covers the underlying physical and chemical theories and laws with emphasis on chemical equilibrium. Prerequisites: CHM 111-114 or CHM 115/116. Offered fall.

CHM 321. INSTRUMENTAL ANALYSIS**4 sh**

Instrumental Analysis offers theory and practice of instrumental methods, with emphasis placed on spectroscopic (UV/VIS, IR, NMR, AA) and mass spectrometric methods of analysis. Prerequisites: CHM 311, and CHM 211-214. Offered spring.

CHM 332. PHYSICAL CHEMISTRY I**4 sh**

The mathematical development of the physical principles in chemistry is explored.

Topics include development and application of the laws of thermodynamics, equations of states, kinetic molecular theory, elementary electrochemistry and equilibria.

Laboratory experiments are designed to complement lectures and include studies of phase relationships, calorimetry and gas laws. Three hours lecture and three hours lab per week. Prerequisites: CHM 111-114 or CHM 115/116; MTH 121; PHY 112 or 114. Offered fall.

CHM 334. PHYSICAL CHEMISTRY II**4 sh**

The principles of quantum mechanics are developed and illustrated by use of simple systems. Spectroscopic techniques are investigated as tools for probing structure and properties of molecules. Other topics include kinetics and group theory. Laboratory experiments are designed to complement lectures and include multiple techniques to investigate reaction kinetics, laser spectroscopy, UV-VIS spectroscopy and computational techniques. Three hours lecture, three laboratory hours per week. Prerequisites: CHM 332, MTH 221, PHY 114. Offered spring.

CHM 351. BIOCHEMISTRY**3 sh**

This is a survey of biochemistry as it relates to the physiology of organisms. Topics include biochemical methodology, buffers, proteins (structure, function and synthesis), enzymes, bioenergetics, anabolism and catabolism of carbohydrates and lipids and metabolic regulation. Prerequisites: CHM 211-214. (CHM 351 is cross-listed with BIO 351.) Offered fall.

CHM 352. BIOCHEMISTRY LABORATORY**1 sh**

This laboratory investigates the rates of enzyme-catalyzed reactions, including the effect of enzyme inhibitors; the isolation/purification/analysis of proteins, lipids and carbohydrates; and some analytical techniques used in clinical chemistry laboratories. Techniques employed include affinity chromatography, electrophoresis, gas chromatography, UV-visible spectrometry and polarimetry. Prerequisites: CHM 211-214. Corequisite: CHM 351. (CHM 352 is cross-listed with BIO 352.) Offered fall.

CHM 431. ADVANCED INORGANIC CHEMISTRY**4 sh**

This course will begin with an accelerated review of the history of inorganic chemistry, atomic structure and simple bond theory. It will then provide an in-depth introduction into symmetry and group theory with applications to the description of chemical bonding in molecular orbital theory. Acid-Base and Donor-Acceptor Chemistry and the descriptive chemistry of the main group elements will be followed by an in-depth survey of organometallic chemistry. The continued application of physical methods of structure determination of inorganic compounds by magnetic and spectral techniques including magnetic susceptibility, UV/VIS and IR spectroscopies and NMR spectrometry will be presented throughout the course. Prerequisites: CHM 205, 211-214 and CHM 334. Offered fall.

CHM 432. PHYSICAL ORGANIC CHEMISTRY**2 sh**

The study and applications of Hückel molecular orbital theory toward the understanding of the mechanisms of selected chemical reactions. The focus will be on empirical methods to derive mechanisms including linear free energy relationships and reaction kinetics. Techniques to be covered include photoelectron spectroscopy (PES) and computational chemistry (CC). Prerequisite: CHM 334.

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CHM 461. SEMINAR**1 sh**

Students make presentations after they do individual library research. Student seminars are supplemented with seminars by practicing scientists. All chemistry-oriented students are encouraged to attend. Credit for junior and senior majors only or by permission of the instructor. Completion of this course satisfies the oral competency requirement for the B.S. and B.A. major in Chemistry. Course is two semesters in length with 0.5 sh each semester. Students must take both semesters. Offered fall and spring.

CHM 471-479. SPECIAL TOPICS IN CHEMISTRY**2-4 sh**

Advanced topics offered to meet the needs and interests of students include methods in forensic and medicinal chemistry, nuclear chemistry, nuclear magnetic resonance spectrometry, advanced organic or polymer chemistry. Prerequisites: CHM 212/214.

CHM 481. INTERNSHIP**1-4 sh**

Students gain advanced level work experience in a chemical field. Internships are offered on an individual basis when suitable opportunities can be arranged. Prerequisite: permission of department.

CHM 491. INDEPENDENT STUDIES**1-4 sh****CHM 499. RESEARCH****1-3 sh**

In collaboration with a chemistry faculty member, students undertake experimental or theoretical investigations. Prerequisite: Approval of department chair. Offered fall, winter, spring.

Classical Studies

Coordinator: Professor Gill

Classical Studies is an interdisciplinary program of studies in the languages, history, culture and heritage of the ancient and early modern world. This program gives students an opportunity for concentrated study of "Classical" ideas and practices, which form an important part of Western civilization. In addition, the program examines the ways that these ideas and practices have influenced, and been modified by, later generations. A minor in Classical Studies can serve as a valuable complement to many fields, providing depth and context for a student's other courses, encouraging analytical study of primary sources and allowing the pleasure of reading some of Western civilization's greatest works.

A minor in Classical Studies requires the following:

Twenty semester hours taken from the list below and/or from other approved courses. At least eight of these semester hours must be at or above the 300-level. Courses must be chosen from at least three departments.

Acceptable courses in Classical Studies include:

ART 221	Art and History: Prehistory to the Present	4 sh
ART 343	Renaissance Art History	4 sh
CLA 110	Introduction to Classical Studies	4 sh
ENG 221	British Literature I	4 sh
ENG 321	Classical Literature	4 sh
ENG 322	Medieval Literature	4 sh
ENG 323	Renaissance Literature	4 sh
FNA 265	Studies in Italy/ELR	4 sh
FNA 313	British Art and Architecture	4 sh
GRK 110	Beginning Greek	4 sh
GRK 210	Intermediate Greek	4 sh
GRK 310	Advanced Greek	4 sh
HST 111	Europe and the Mediterranean World to 1660	4 sh
HST 323	Making of the English Nation to c.1660	4 sh
LAT 121	Beginning Latin I	4 sh
LAT 122	Beginning Latin II	4 sh
MUS 315	The Music of Ancient Times through Mozart	4 sh
PHL 331	Ancient Philosophy	4 sh
PHL 332	Medieval Philosophy	4 sh
PHL 355	Philosophy of Religion	4 sh
POL 300	Introduction to Political Thought	4 sh
REL 111	The Old Testament Story	4 sh
REL 112	Introduction to the New Testament	4 sh
REL 321	Archaeology of the Ancient Near East	4 sh
REL 322	Old Testament Prophets	4 sh
REL 324	Book of Job	4 sh

REL 325	Revelation and other Apocalyptic Literature	4 sh
REL 326	Life and Thoughts of Paul	4 sh
REL 329	Jesus and the Gospels	4 sh
REL 355	Philosophy of Religion	4 sh
THE 301	Theatre History and Literature I	4 sh
TOTAL		20 sh

In addition to these catalog courses, occasional courses with special topics in Classical Studies will be offered. Examples include Hebrew 110, 210, 310; HST/REL 371, The Ancient World; FRE 371 and SPN 371, Special Topics, as appropriate.

CLA 110. INTRODUCTION TO CLASSICAL STUDIES

4 sh

This course gives the student a chance to find out more about the Classical elements that have shaped Western civilization. The course looks at the literature, art and architecture of the ancient Greek and Roman worlds. It studies how our Classical heritage has affected later ages and cultures, including our own. Offered in fall semesters.

Communications

See Journalism and Communications

Computing Sciences

Chair: Associate Professor Powell

Associate Professors: Heinrichs, Schuette, B. Taylor

Assistant Professors: Conklin, Hightower, Pollard, Yap

Instructor: Hollingsworth

Lecturer: Kleckner

Adjunct: Bryan

The Department of Computing Sciences at Elon University offers A.B. and B.S. degrees in Computer Science, A.B. and B.S. degrees in Computer Information Systems, and minors in Computer Science and Computer Information Systems. A concentration area in Management Information Systems (for majors in Business Administration) and minors in Multimedia Authoring or Geographical Information Systems are also available options.

The discipline called Computer Science emphasizes problem solving based upon mathematical logic, the analysis of alternative solutions, the use of the scientific method of hypothesis development and testing, and the link between principles, creativity and implementation techniques. The experiences, challenges and discipline of computer science translate well into other areas and interests. The discipline is constantly changing; the student must be able to communicate well and learn new concepts throughout life. The Computer Science program at Elon is a rigorous one emphasizing the application and theory of computation. Students study programming languages, operating systems, algorithm analysis, artificial intelligence, game programming and parallel and distributed problem-solving using computer technology.

The Computer Information Systems discipline centers on the development of systems that will improve the performance of people in organizations. Information systems are vital to problem identification, analysis and decision-making. These skills are integral parts of many fields of study. Students in information systems apply problem-solving techniques and programming skills to the design, implementation and maintenance of these information systems. Computer Information Systems at Elon is a hands-on program that gives the stu-

dent a solid foundation in information systems, including knowledge and skills about networks, Web development, database development, systems analysis, application development and project management.

Computing Sciences students at Elon have excellent access to both faculty and equipment including a wide array of computer hardware and software. The latest versions of over fifty software development tools are updated twice annually. Every computer is replaced every three years. Opportunities for various work and independent learning experiences that complement classroom learning are available. Other opportunities for involvement include the student chapter of the Association for Computing Machinery (ACM), participation in regional and local programming contests and independent study and research. Graduates pursue employment in many areas of industry, business, education and government as well as continuing study at the graduate level.

A Bachelor of Arts degree in Computer Science requires the following courses:

CSC 130	Introduction to Computer Science	4 sh
CSC 230	Algorithm Development	4 sh
CSC 331	Algorithm Analysis	4 sh
CSC 335	Programming Languages	4 sh
CSC 342	Computer Organization and Architecture	4 sh
CSC 351	Theory of Computation	4 sh
CSC 441	Operating Systems and Networking	4 sh
CSC 462	Software Development/Capstone	4 sh
MTH 206	Discrete Structures	4 sh
MTH 221	Calculus and Analytic Geometry II	4 sh
Select one course beyond core math requirement		4 sh

Probability/Statistics: if core math requirement was MTH 121, then
MTH 112 General Statistics or a probability and/or statistics course

or

Quantitative Analysis: if core math requirement was MTH 112, then
MTH 121 Calculus and Analytic Geometry I

Two courses from the following: 8 sh

CSC 410	Artificial Intelligence
CSC 415	Numerical Analysis
CSC 420	Game Programming and Computer Graphics
CSC 430	Advanced Programming Concepts
CSC 431	Parallel and Distributed Computation
CSC 499	Research
CSC 300-400 level elective	

TOTAL	52 sh
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A Bachelor of Science degree in Computer Science requires the following courses:

CSC 130	Introduction to Computer Science	4 sh
CSC 230	Algorithm Development	4 sh
CSC 331	Algorithm Analysis	4 sh
CSC 335	Programming Languages	4 sh
CSC 342	Computer Organization and Architecture	4 sh

CSC 351	Theory of Computation	4 sh
CSC 441	Operating Systems and Networking	4 sh
CSC 462	Software Development/Capstone	4 sh
MTH 206	Discrete Structures	4 sh
MTH 221	Calculus and Analytic Geometry II	4 sh
Select one course beyond core math requirement		4 sh
Probability/Statistics: if core math requirement was MTH 121, then MTH 112 General Statistics or a probability and/or statistics course		
or		
Quantitative Analysis: if core math requirement was MTH 112, then MTH 121 Calculus and Analytic Geometry I		
Three courses from the following:		12 sh
CSC 410	Artificial Intelligence	
CSC 415	Numerical Analysis	
CSC 420	Game Programming and Computer Graphics	
CSC 430	Advanced Programming Concepts	
CSC 431	Parallel and Distributed Computation	
CSC 499	Research	
CSC 300–400 level elective		
Either:		8 sh
CHM 111, 112, 113, 114, or		
PHY 113, 114, 117, 118, or		
BIO 111, 112, 113, 114		
TOTAL		64 sh

A Bachelor of Arts in Computer Information Systems requires the following courses:

CIS 211	Management Information Systems	4 sh
CIS 216	Programming in a Visual Environment	4 sh
CIS 245	Hardware, Systems Software and Communications	4 sh
CIS 301	Database Management and Analysis	4 sh
CIS 325	Web Development	4 sh
CIS 330	Systems Analysis and Design	4 sh
CIS 345	Networks and Telecommunications	4 sh
CIS 430	Project Implementation and Management	4 sh
CIS 450	Seminar in Information Systems (capstone)	4 sh
PHL 115	Ethical Practice	4 sh
MTH 206	Discrete Structures	4 sh
Select one course beyond core math requirement		4 sh
Probability/Statistics: if core math requirement was MTH 121, then MTH 112 General Statistics or a probability and/or statistics course		
or		
Quantitative Analysis: if core math requirement was MTH 112, then MTH 116 Applied Mathematics with Calculus or MTH 121 Calculus and Analytic Geometry I		
Total		48 sh

A Bachelor of Science in Computer Information Systems requires the following courses:

CIS 211	Management Information Systems	4 sh
CIS 216	Programming in a Visual Environment	4 sh
CIS 245	Hardware, Systems Software and Communications	4 sh
CIS 301	Database Management and Analysis	4 sh
CIS 325	Web Development	4 sh
CIS 330	Systems Analysis and Design	4 sh
CIS 345	Networks and Telecommunications	4 sh
CIS 430	Project Implementation and Management	4 sh
CIS 450	Seminar in Information Systems (capstone)	4 sh
PHL 115	Ethical Practice	4 sh
MTH 206	Discrete Structures	4 sh
Select one course beyond core math requirement		4 sh

Probability/Statistics: if core math requirement was MTH 121 then
MTH 112 General Statistics or a probability and/or statistics course

or

Quantitative Analysis: if core math requirement was MTH 112 then
MTH 116 Applied Mathematics with Calculus **or**
MTH 121 Calculus and Analytic Geometry I

Choose one of the following Information Systems Environments: 16 sh

Business Option:

Select any four courses from the Business Administration minor

or

Biology Option:

BIO 111 and BIO 113; BIO 112 and BIO 114

Select 8 hours taken from BIO 200, 300, or 400 level courses of interest

or

Criminal Justice Studies Option:

Select at least one course from CJS minor core: PSY 357,
SOC 355, or HUS 359

Select 12 hours from remaining CJS minor core or other available electives

Total	64 sh
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A minor in Computer Science requires the following:

CSC 130	Introduction to Computer Science	4 sh
CSC 230	Algorithm Development	4 sh
Eight semester hours of 300-400 level Computer Science (CSC) courses		8 sh
One additional course from CSC or CIS at the 200 level or above		4 sh
Total		20 sh

A minor in Computer Information Systems requires the following:

CIS 211	Management Information Systems	4 sh
CIS 216	Programming in a Visual Environment	4 sh

CIS 245	Hardware, Systems Software and Communications	4 sh
CIS 301	Database Management and Analysis	4 sh
One course from the following:		4 sh
CIS 325	Web Development	
CIS 330	Systems Analysis and Design	
CIS 345	Networks and Telecommunications	
Total		20 sh

Multimedia Authoring Minor: See Multimedia Authoring
Geographical Information Systems Minor: See Geographical Information Systems
Concentration in Management Information Systems: See Business Administration

Computer Information Systems

CIS 112. PROBLEM SOLVING WITH SPREADSHEET APPLICATIONS **2 sh**

This course involves projects requiring quantitative reasoning. Microsoft Excel is used for what-if analysis and graphical presentation of data. Fundamental functions, work-sheet database features and the use of Excel to create static and dynamic Web pages are covered. Prerequisite: None. Offered: fall and spring.

CIS 113. INTRODUCTION TO DATABASE SYSTEMS **2 sh**

This course uses a personal database system (Microsoft Access) to implement projects requiring the organization, manipulation and retrieval of data. Students learn how to analyze and present their data using forms, reports and views. Basic and advanced techniques for data retrieval using elementary SQL and joining multiple tables are covered. No credit for students with CIS 211. Prerequisite: None. Offered: fall and spring

CIS 114. INTRODUCTION TO WEB SITE DEVELOPMENT **2 sh**

This course develops projects which require the organization and presentation of information on Internet Web sites using a high level tool (Microsoft FrontPage). Lower level tools such as HTML, DHTML, cascading style sheets, XML.VB script and active server pages will be introduced. Prerequisite: None. Offered fall and spring.

CIS 211. MANAGEMENT INFORMATION SYSTEMS **4 sh**

This course provides an introduction to the fundamentals of Information Systems (IS) in organizations. The course examines the role of IS in managing Customer Relationships (CRM) and introduces the fundamentals of business-process modeling using data flow diagrams and Microsoft Visio. Database Management is introduced using Microsoft Access to implement projects requiring the organization, manipulation and retrieval of data and to design and execute forms, reports and views. Elementary SQL and query construction will be covered. The strategic and global aspects of Information Systems are reviewed. Prerequisite: None. Offered: fall and spring.

CIS 216. PROGRAMMING IN A VISUAL ENVIRONMENT **4 sh**

This course utilizes a programming language with a visual development environment to implement computer applications. Common visual and data objects are incorporated into projects. Code is developed to respond to events induced on these objects by users or other code. Students design and present group and individual projects. Prerequisite: Core Math Requirement or permission of the instructor. Offered fall and spring.

CIS 220. COMPUTERS AND TEACHING **3 sh**

This course is designed for students who are planning to teach at the elementary, middle or secondary level and provides an introduction to the role of technology in teaching and learning in K-12 schools. The course provides opportunities for students to develop basic skills in using technology and in selecting and applying technology

appropriately to enhance teacher productivity and student learning. Prerequisite: EDU 211. Offered fall and spring.

CIS 245. HARDWARE, SYSTEMS SOFTWARE AND COMMUNICATIONS 4 sh

This course provides the hardware/system software fundamentals for various computer/network architectures used in the design, development and implementation of contemporary information systems. These concepts enable systems development personnel to explain tradeoffs in computer architecture for effective design. Topics include system architecture for single-user, central and networked computing systems and single- and multi-user operating systems. Prerequisite: Core Math Requirement. Offered fall.

CIS 301. DATABASE MANAGEMENT AND ANALYSIS 4 sh

This course focuses on designing, implementing and using database systems with emphasis on relational and object-relational models. Students design and deploy relational database models using Oracle client and server tools. Students will also learn how to integrate various client front-ends and reporting tools with Oracle databases (such as MS Access using ODBC and Crystal Reports). Students will learn SQL and will be able to design complex reports and queries to answer business problems. This course also provides a short introduction to basic concepts of data analysis and data mining using simple descriptive statistics and SQL. Prerequisite: CIS 211 and CIS 216. Offered fall and spring.

CIS 310. INTERACTION DESIGN FOR WEB AND MULTIMEDIA 4 sh

This course provides Multimedia Authoring minors and other non-CSC CIS majors with a complete overview of Web development, including theories of Information Architecture. Students will develop Web sites of medium complexity after learning the basics of page markup and interactive Web programming. Prerequisite: None. Offered spring.

CIS 320. BUILDING INTERACTIVE WEB SITES 4 sh

This course provides Multimedia Authoring minors and other non-CSC CIS majors with a knowledge of how to integrate database systems with a Web site. Students will develop Web sites of medium complexity after learning the basics of relational database design and three-tier Web programming. Prerequisite: None. Offered fall.

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CIS 325. WEB DEVELOPMENT 4 sh

This course provides a complete overview of the Web site development process. Students will create complex, interactive Web sites using HTML, XHTML, CSS, Javascript, PHP, SQL, Oracle and Apache. Prerequisite: CIS 301. Offered fall.

CIS 330. SYSTEMS ANALYSIS AND DESIGN 4 sh

This in-depth study of standard techniques for analyzing and designing Information Systems (IS) emphasizes effective written and oral communication as students examine a system using a realistic business scenario. Appropriate CASE tools (Visible Analyst and/or Visio) are used during the analysis phase. Visual Basic, Crystal Reports and Access are used during the implementation phase to create a simulated software application. Prerequisite: CIS 216. Offered fall.

CIS 345. NETWORKS AND TELECOMMUNICATIONS 4 sh

This course focuses on concepts and technologies associated with data and voice communications. Students learn about local and wide area networks, telecommunication systems, protocols, transmissions alternatives, network architectures and design. Hardware and software, client-server computing and management issues are covered. Prerequisite: CIS 245. Offered spring.

CIS 371. SPECIAL TOPICS 1-4 sh

Topics such as decision support and expert systems, data communications and networks, and design patterns are offered when demand is sufficient.

CIS 430. PROJECT IMPLEMENTATION AND MANAGEMENT**4 sh**

Project teams identify a business situation requiring information systems (IS) improvement. Concepts and tools for analysis and design methodology are applied. The team carries this design through the implementation phase using appropriate CASE tools, Visual Basic, Access and Crystal Reports. This project is more in-depth than the simulation of CIS 330. Project documentation is presented in the form of a user's manual. Several class presentations are required throughout the semester, culminating with the final working software application. Prerequisite: CIS 330. Corequisite: CIS 345. Offered spring.

CIS 450. SEMINAR IN INFORMATION SYSTEMS**4 sh**

The capstone experience for senior CIS majors involves a close review of the conceptual and theoretical foundations of the discipline. Contemporary issues, problems and trends in CIS are discussed with special focus on applications in business, biology and criminal justice. Students will complete a major research paper and presentation. Prerequisites: Senior standing and at least one 300-level CIS course. Offered spring.

CIS 465. MIS STRATEGIES FOR E-BUSINESS**4 sh**

The MIS capstone course explores tactical and strategic management of information systems (IS) at the business unit and enterprise level. Students examine current IS issues facing specific industries - healthcare, banking and retail and also explore management of IS on a global scale and within various countries/regions. The course involves a project focused on design and development of an e-Business software application. Prerequisite: CIS 325 or CIS 330. Offered spring.

CIS 481. INTERNSHIP IN INFORMATION SYSTEMS**1-4 sh**

Advanced work experiences in Computer Information Systems (CIS) are offered on an individual basis when suitable opportunities can be arranged. Prerequisites: CIS 340 and permission of instructor.

CIS 491. INDEPENDENT STUDY**1-4 sh****CIS 499. RESEARCH****1-4 sh**

Students engage in undergraduate research under the direction of a computing sciences faculty member. Maximum of eight semester hours total credit. Prerequisite: Eligibility as determined by the undergraduate research guidelines of Elon University and approval by the department.

*Computer Science***CSC 130. INTRODUCTION TO COMPUTER SCIENCE****4 sh**

This introduction to programming and problem solving emphasizes applications from quantitative disciplines and incorporates weekly group lab experiences. Prerequisite: MTH 100 or its exemption. Offered fall and spring.

CSC 171. SPECIAL TOPICS**1-4 sh**

Students study specialized pieces of software and programming languages. Prerequisite: CSC 130.

CSC 230. ALGORITHM DEVELOPMENT**4 sh**

This course continues the study of the development of algorithms and provides an introduction to the analysis of time and space complexity. Topics include program correctness, recursion, elementary data structures, modularization and program structure. Prerequisite: CSC 130. Offered fall and spring.

CSC 331. ALGORITHM ANALYSIS**4 sh**

Students analyze structures and appropriate algorithms for sorting, merging and searching in the contexts of mass storage devices, internal main memory and Artificial Intelligence (AI) applications. Topics include graph algorithms, dynamic storage allocation and garbage collection. Prerequisites: CSC 230 and MTH 206. Offered spring.

CSC 335. PROGRAMMING LANGUAGES**4 sh**

This course provides an introduction to language definition structure, data types and structures, control structures and data flow, run-time characteristics, and lexical analysis and parsing. Programming assignments involve the use of several languages. Prerequisite: CSC 230. Offered fall.

CSC 342. COMPUTER ORGANIZATION AND ARCHITECTURE**4 sh**

Topics cover architectural levels, systems organization, digital logic, machine level, instruction formats, representation of data and computer arithmetic, assembly, linking and loading, and architectural alternatives. Prerequisite: CSC 230. Offered fall.

CSC 351. THEORY OF COMPUTATION**4 sh**

In this introduction to theoretical computer science and analysis of discrete mathematical structures which find application in computer science, topics may include predicate calculus, groups, coding theory, graphs, trees, formal languages, grammars, finite state automata, Turing machines and complexity theory. CSC 351 is cross-listed with MTH 351. Prerequisites: CSC 130, MTH 121, 206. Corequisite: CSC 230. Offered spring.

CSC 371. SPECIAL TOPICS**1-4 sh**

Topics such as genetic programming, grid computing, decision analysis, design of data base management systems, robotics, simulation and high performance computing are offered when demand is sufficient.

CSC 410. ARTIFICIAL INTELLIGENCE**4 sh**

This course is an introduction to the area of Artificial Intelligence systems. Students will learn concepts of knowledge representation, reasoning, acting under uncertainty and learning. Applications studied will include game playing, natural language and expert systems. Prerequisite: CSC 230. Offered fall alternating years.

CSC 415. NUMERICAL ANALYSIS**4 sh**

(Cross-listed with MTH 415.)

CSC 420. GAME PROGRAMMING AND COMPUTER GRAPHICS**4 sh**

A study of two major areas of programming video games: graphics and game theory. Students will learn the fundamentals of three-dimensional graphic programming, including object transformations, ray tracing, collision detection and animation as well as the components of game theory, including intelligent game playing, types of games and creating engaging storylines. Prerequisite: CSC 230. Offered fall alternating years.

CSC 430. ADVANCED PROGRAMMING CONCEPTS**4 sh**

This course will focus on advanced programming concepts beyond the core computer science material. The material in the course continually evolves guided by the needs of students, the expertise of faculty members and technology trends. Currently, the course focuses on developing enterprise level, multi-tier distributed applications. The course explores the major technologies used by server side applications. Using a commercial application server, students will design and implement a significant programming project using either Enterprise JavaBeans or WebServices. Prerequisites: CSC 331, CSC 335. Offered spring alternating years.

CSC 431. PARALLEL AND DISTRIBUTED COMPUTATION**4 sh**

This course introduces the foundational concepts of parallel and distributed computation. Topics include SIMD (Single Instruction, Multiple Data) and MIMD (Multiple Instruction, Multiple Data) computation, vector processing, shared memory, concurrency issues, message passing, parallel algorithms and the complexity class NC. A large portion of the course will consist of project work, using MPI, PVM and/or Beowulf. Prerequisite: CSC 331, 342. Offered spring alternating years.

CSC 441. OPERATING SYSTEMS AND NETWORKING**4 sh**

Students study the fundamental concepts of operating systems and computer networks.

Topics include concurrent programming, process management, memory management, resource allocation, network protocols and stacks and application level protocols.
Prerequisites: CSC 331, 342. Offered spring.

CSC 462. SOFTWARE DEVELOPMENT/CAPSTONE**4 sh**

This capstone course combines a range of topics integral to the specification, design, implementation and testing of a medium-scale software system with the practical experience of implementing such a project as a member of a team. In addition to material on software engineering, the course includes material on human computer interaction and on professionalism and ethical responsibilities in software development.
Prerequisites: CSC 331, CSC 335. Offered fall.

CSC 481. INTERNSHIP IN COMPUTER SCIENCE**1-4 sh**

Advanced work experiences in Computer Science are offered on an individual basis when suitable opportunities can be arranged. Prerequisites: permission of instructor.

CSC 491. INDEPENDENT STUDY**1-4 sh****CSC 499. RESEARCH****1-4 sh**

Students engage in undergraduate research under the direction of a computing sciences faculty member. Maximum of eight semester hours total credit. Prerequisite: Eligibility as determined by the undergraduate research guidelines of Elon University and approval by the department.

Cooperative Education

Director of Experiential Education: Assistant Professor P. Brumbaugh

Assistant Professors: Allison, Donathan, Hosuski, Lipe, Magee, Martin, Olive-Taylor, L. Rich

The Career Center offers courses designed to acquaint Elon students with the career decision-making process, to assist them in career exploration and graduate school test preparation and to prepare them for the job search.

COE 110. EXPLORING CAREERS/MAJORS**1 sh**

This class assists students in exploring majors and careers. Topics include personal values and needs assessment, interest and skill inventories, and career decision-making skills. Recommended for freshmen and sophomores. Offered fall and spring in a half-semester format.

COE 218. GRE PREPARATION**2 sh**

Students prepare for the test that they will need to take prior to applying to graduate school. In addition to familiarizing students with various types of questions on the test, this course will help students develop reasoning skills that they need to perform well. Students receive instruction on the basic mathematical principles that are included on the test. Recommended only for juniors and seniors. Offered first half of spring semester.

COE 219. LSAT PREPARATION**2 sh**

Students prepare for the test that they will need to take prior to applying to law school. In addition to familiarizing students with various types of questions on the test, this course will help students develop reasoning skills that they need to perform well. Students receive instruction on the basic mathematical principles that are included on

this test. Recommended only for juniors and seniors. Offered second half of spring semester.

COE 310. SECURING A JOB

1 sh

This course helps students prepare for internships, co-ops, summer jobs and permanent employment. Students develop strategies to achieve career goals, investigate critical issues in the workplace, develop a resume and a cover letter, learn how to network and interview effectively. Recommended for sophomores, juniors and seniors. Offered fall and spring.

COE 381-386. CO-OP WORK EXPERIENCE

1-16 sh

This series of courses involves careful monitoring of students in either a part-time or full-time work experience. Students apply classroom theory in a job related to their major/minor career objectives. Prerequisite: admission to the program.

The Cooperative Education Work Experience program enables qualified students to combine classroom theory with professional work experience while completing their degrees. The student may work full time or part time with an employer selected and/or approved by the university. Credit hours are based on the number of hours worked during the term — a maximum of 16 semester hours of internship/cooperative education credits may be applied to the 132 semester hours required for the A.B. and B.S. degrees. Evaluation is based on reported job performance and student reflection on that performance through papers, journals, seminars, class presentations and readings. Contact the Director of Experiential Education for more information.

ELIGIBILITY REQUIREMENTS: Sophomore, junior or senior standing; minimum 2.0 GPA; approval of faculty/Experiential Education Director. COE 310 class recommended.

Criminal Justice

Coordinator: Associate Professor McClearn

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The Criminal Justice program engages students in the interdisciplinary study of crime and criminal justice, primarily within the United States. Students will gain an understanding of the psychological and sociological dimensions of crime as well as insights into the workings of the criminal justice system and its components. Students will study both academic and applied aspects of the field. Ethical implications and critical analysis of issues will be stressed.

A minor in Criminal Justice Studies requires the following:

PSY 357 Criminal Behavior 4 sh

SOC 355 Sociology of Crime 4 sh

HUCS 359 Criminal Justice 4 sh

Eight semester hours of electives selected from the following: 8 sh

CJS 371-9 Special Topics in Criminal Justice

CJS 481 Internship in Criminal Justice

CJS 491 Independent Study

PHL 341 Philosophy of Law

POL 324 Civil Liberties

SOC 342 Social Deviance

Other courses as approved by the program coordinator

TOTAL

20 sh

CJS 371-379. SPECIAL TOPICS IN CRIMINAL JUSTICE **2-4 sh**

A series of courses reflecting new contributions to the Criminal Justice field and in-depth treatments of topics of special interest, such as terrorism and organized crime. Prerequisites: junior standing and at least one core course, or permission of the instructor. Courses may be cross-listed with other disciplines.

CJS 481. INTERNSHIP IN CRIMINAL JUSTICE **2-4 sh**

Students apply classroom knowledge to a law enforcement setting. Internships in a criminal justice setting taken from other disciplines might substitute for CJS 481; approval for any such substitutions must be obtained from program coordinator before registration. Prerequisites: junior standing, at least one core course and approval of instructor and program coordinator.

CJS 491. INDEPENDENT STUDY **1-4 sh**

Advanced study on a topic of special interest. Prerequisites: junior standing, at least one core course and approval of instructor and program coordinator.

CJS 499. RESEARCH **1-4 sh**

In collaboration with a faculty member, students undertake an empirical or theoretical study of a topic in the realm of Criminal Justice studies. Research projects may include a review of the relevant research literature, data collection and analysis, and a presentation or report when the study is completed. Prerequisites: junior standing, at least one core course and approval of instructor and program coordinator. A research proposal form completed by the student in conjunction with the faculty member is required for registration.

Dance

Chair, Department of Performing Arts: Associate Professor McNeela
Associate Professor: Wellford
Assistant Professors: Ma, Sabo
Adjuncts: Bower, Hutchins, Medler, Roberts, Serrano, Shatterly, Wheeler

The Bachelor of Arts degree in Dance is designed for students who want to acquire a strong liberal arts and sciences background while pursuing a solid undergraduate dance education. The degree stresses performance and choreography as well as dance theory courses, including dance history, human anatomy, dance pedagogy and dance production.

The primary goal is to train students in the rudiments of dance technique, composition, history, pedagogy, performance and aesthetics in order for them to develop virtuosity in a variety of dance genres as teachers, choreographers and performers of dance. Studio technique classes range from beginning to advanced level and include ballet, modern, jazz and tap.

Students in the minor program are required to complete at least the beginning level in three of these areas and at least an intermediate level in two areas. Students round out their training with History of Dance and Dance Choreography classes.

Numerous performance opportunities are also available through Elon Dancers, choreographic showings, major dance concerts, musicals and various other events.

A major in Dance requires the following courses:

DAN 223	Dance Ensemble (1st of 2 required semesters)	1 sh
DAN 223	Dance Ensemble (2nd of 2 required semesters)	1 sh
DAN 301	History of Dance	4 sh

DAN 330	Dance Improvisation	4 sh
DAN 430	Dance Choreography	4 sh
DAN 495	Senior Seminar	4 sh

Eight semester hours of dance technique courses selected from: 8 sh

DAN 104, 204, 304 Modern (1 sh ea.)

DAN 105, 205, 305 Tap (1 sh ea.)

DAN 106, 206, 306 Ballet (1 sh ea.)

DAN 107, 207, 307 Jazz (1 sh ea.)

Students are required to complete at least the beginning level in 4 different technique categories, the intermediate level in at least two separate categories and the advanced level in at least one area. If the student is above the beginning level of technique at his/her entry into Elon, the beginning level requirement is waived by permission of dance faculty and the student may begin his/her technique classes at the intermediate level. Beginning, Intermediate and Advanced technique classes may be taken for repeat credit. Students require the approval of the appropriate dance faculty before moving to the next technical level.

Eight semester hours of dance electives selected from: 8 sh

DAN 310 Advanced Projects in Dance (2-4 sh)

DAN 320 Special Topics in Dance (2-4 sh)

DAN 420 Dance for Musical Stage (1 sh)

Twelve semester hours of general arts elective courses selected from: 12 sh

DAN 101 Introduction to Dance (4 sh)

DAN 115 Folk, Square and Social Dance (1 sh)

THE 125 Acting for Non-Majors (4 sh)

THE 210 Technical Production in Theatre (4 sh)

THE 222 Fundamentals of Make Up/Design (2 sh)

FNA 211 Introduction to Fine Arts (4 sh)

Other arts-related courses may be selected with prior permission of the chair of Performing Arts.

TOTAL 46 sh

A minor in Dance requires the following courses:

DAN 301	History of Dance	4 sh
DAN 430	Dance Choreography	4 sh

In addition, each minor must complete the following:

- (a) six studio technique classes in three of the following:
ballet, jazz, modern or tap 6 sh
- (b) electives selected from dance offerings 6 sh
(At least 2 semester hours at the 300-400 level)

TOTAL 20 sh

DAN 101. INTRODUCTION TO DANCE 4 sh

This course invites dancers and non-dancers to learn basic dances and their history in the area of performing arts and social dances of a variety of periods. The creative process of dance will also be explored. Offered fall only.

DAN 104. BEGINNING MODERN DANCE 1 sh

Students with little or no previous experience in modern dance learn the basic movement vocabulary of modern dance while working on style, musicality, strength, flexibility and correct alignment. May be repeated for credit. Offered fall and spring.

DAN 105. BEGINNING TAP**1 sh**

The student will be introduced to the basics of rhythm tap, including technique, traditional movement vocabulary, rhythmic sensibility, history and the development of individual style. May be repeated for credit. Offered fall and spring.

DAN 106. BEGINNING BALLET**1 sh**

Students with little or no previous experience in ballet learn the basic movement vocabulary of modern ballet while working on style, musicality, strength, flexibility and correct alignment. May be repeated for credit. Offered fall and spring.

DAN 107. BEGINNING JAZZ**1 sh**

Students with little or no previous dance experience learn the basic movement vocabulary of jazz while working on style, musicality, strength, flexibility and correct alignment. It is recommended that a beginning student complete DAN 104 and DAN 106 before taking DAN 107. May be repeated for credit. Offered fall and spring.

DAN 115. FOLK, SQUARE AND SOCIAL DANCE**1 sh**

This course introduces the student to various folk, square and social dance forms through analysis, demonstration and practice with the objective being knowledge of the characteristics of each form and ability to participate in each.

DAN 150. DANCE FOR THE MUSICAL STAGE I**1 sh**

This course is designed for the incoming music theatre major. Levels and abilities will be assessed, alignment corrected, fundamental dance technique and conditioning exercises taught and drilled in order to ready the student for dance technique and styles classes required by their major. Students will also learn fundamental locomotor skills and the basic techniques required for jumping and turning. Dance combinations stressing steps and styles historically and traditionally used in the music theatre will be taught to a variety of musical styles. Stress is placed on giving the student a new awareness of and comfort with his or her body: to condition it, to gain the ability to apply dance technique and to learn to express musicality in a physical way. No prerequisite. For music theatre majors only. To be taken in the fall of the music theatre major's first year.

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DAN 204. INTERMEDIATE MODERN DANCE**1 sh**

Students who have mastered the competencies of Beginning Modern Dance further develop and refine technique and increase strength and flexibility in this class. Enhanced musicality and creative expression are stressed. A student must master Intermediate Modern Dance before moving to DAN 304. May be repeated for credit. Prerequisite: DAN 104 or permission of instructor. Offered fall or spring.

DAN 205. INTERMEDIATE TAP**1 sh**

This course continues to focus on the aspects of DAN 105 plus the introduction of contemporary vocabulary, flash work, improvisation, polyrhythms and choreography. May be repeated for credit. Prerequisite: DAN 105 or permission of instructor. Offered fall and spring.

DAN 206. INTERMEDIATE BALLET**1 sh**

Students who have mastered the competencies of Beginning Ballet further develop and refine technique and increase strength and flexibility in this class. Enhanced musicality and creative expression are stressed. May be repeated for credit. Prerequisite: DAN 106 or permission of instructor. Offered fall and spring.

DAN 207. INTERMEDIATE JAZZ**1 sh**

Students with two or more years of dance training further develop and refine technique and increase strength and flexibility in this class. Enhanced musicality and creative expression are important elements of the course. A student must master Intermediate Jazz before moving to DAN 307. May be repeated for credit. Prerequisite: DAN 107 or permission of instructor. Offered fall and spring.

- DAN 223. DANCE ENSEMBLE** 1 sh
Students accepted into this course will perform in departmental dance concerts and must be co-registered in a technique class, preferably at the intermediate or advanced level. Admission by audition only. Offered spring.
- DAN 301. HISTORY OF DANCE** 4 sh
Students explore the evolution of dance as an art from its beginning to 21st century trends. Dance as a performing art and dance as a social and educational art will be covered in this course. Students learn through lectures, discussions, experiential dances and research projects. Offered spring.
- DAN 304. ADVANCED MODERN DANCE** 1 sh
Students who have mastered Intermediate Modern Dance further develop and refine skills in this class. Enhanced physical strength and flexibility are combined with stress upon musicality and creative expression. May be repeated for credit. Prerequisites: DAN 204 and permission of instructor. Offered fall or spring.
- DAN 305. ADVANCED TAP** 1 sh
This course offers continuation of the skills developed in DAN 205 with an intense focus on rhythmic sensibility, development of personal style, choreography and improvisation. Prerequisites: DAN 205 and permission of instructor. May be repeated for credit. Offered fall or spring.
- DAN 306. ADVANCED BALLET** 1 sh
Students who have mastered Intermediate Ballet further develop and refine technical skills in this class. May be repeated for credit. Prerequisites: DAN 206 and permission of instructor. Offered fall or spring.
- DAN 307. ADVANCED JAZZ** 1 sh
Students who have mastered Intermediate Jazz further develop and refine technical skills in this class. May be repeated for credit. Prerequisites: DAN 207 and permission of instructor. Offered fall or spring.
- DAN 310. ADVANCED PROJECTS IN DANCE** 2-4 sh 93
For this in-depth study of a special topic, the advanced dancer may be given a performance assignment to demonstrate advanced proficiency in the field (e.g., dance captain for a theatre production, major choreographic duties in department productions, major role in guest choreographer's concert piece, internship at local dance studio culminating in both performance and choreographic work or an independent research project). Prerequisite: advance permission of instructor.
- DAN 320. SPECIAL TOPICS IN DANCE** 2-4 sh
Topics for this in-depth study vary each semester it is offered and may include Black Theatre & Dance, Dance in Worship, Dance Repertory, etc. May be repeated for credit.
- DAN 330. DANCE IMPROVISATION** 4 sh
This course is about the practice of creativity through movement. The student will learn and apply locomotor and non-locomotor movements (learned and spontaneous) into meaningful dance combinations. Additional content areas include study of the four elements of dance (body, force, time and space), movement stimulated by music, visual art, words, colors, props, senses and everyday situations. Offered spring.
- DAN 420. DANCE FOR MUSICAL STAGE II** 1 sh
Students will become familiar with various music theatre styles from selected historical periods, students also learn dance audition and performance methods for music theatre. Prerequisite: senior music theatre majors or permission of instructor. Offered fall or spring.

DAN 430. DANCE CHOREOGRAPHY

4 sh

Students will explore the tools used to create dance, namely movement, time, space, shape, design, dynamics, sound, text properties and visual effects. This course is designed for students with previous dance experience. Not open to freshmen or sophomores except in unusual circumstances. Prerequisites: DAN 330 and at least two dance technique classes or permission of instructor. Offered fall.

DAN 495. SENIOR SEMINAR IN DANCE

4 sh

This course represents the culmination of the students' undergraduate training in the performing arts area of dance. Each student will assume total responsibility for a major project in dance which reflects the student's area of interest (such as choreography, performance or teaching). A second component of the course will be preparation of materials necessary for enrollment in graduate school or dance profession. This project must be approved by the professor in charge of this course. The professor will serve as an advisor and will not be used as a choreographer, director or creator of the project in any way. The student is required to produce written work to illustrate preparation, process, research and self-evaluation of the project. Finally, Departmental Assessment will take place where the student is required to demonstrate overall knowledge in the major.

Economics

The Martha and Spencer Love School of Business mission statement.
To provide instruction and experiences for our students so they graduate with the knowledge, skills and character essential for responsible business leadership in the 21st century.

Chair, Department of Economics: Associate Professor Lilly
Professor: Tiemann
Associate Professors: Barbour, J. Das, DeLoach, Redington
Assistant Professors: DiRienzo, Platania

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Economics explores a broad range of questions about society and uses a wide variety of methods to answer those questions. The courses offered by the Department of Economics are designed to help students develop economic reasoning: a particular way of looking at the world that is useful in government service, business, the law and many other fields.

The goal of the economics faculty is to teach students to "think like an economist." This goal is achieved within an extremely flexible major. The department has defined specific tracks that will help students apply their knowledge in a number of areas and help achieve their aspirations. While the tracks provide a suggested framework of classes for students with varied interests, a track is not required for either a major or a minor in economics. The financial economics track would apply if a student plans a future in finance or banking; the international economics track for those interested in international careers; the public policy track if the interest is in government service; the economic analysis track for those in market analysis and the mathematical economics track for students interested in graduate school.

A major in Economics requires the following courses:

MTH 112	General Statistics	4 sh
MTH 116	Applied Mathematics with Calculus	4 sh or
MTH 121	Calculus and Analytic Geometry I	
ECO 201	Principles of Economics	4 sh
ECO 203	Statistics for Decision-Making	4 sh
ECO 310	Intermediate Macroeconomic Theory	4 sh

ECO 311	Intermediate Microeconomic Theory	4 sh
ECO 498	Senior Thesis Research in Economics	2 sh
Twenty hours ECO electives at the 300-400 level, with:		20 sh
At least four hours from courses designated Applied Macroeconomics (ECO 302, 314)		
At least four hours from courses designated Applied Microeconomics (ECO 301, 335, 421, 432)		
At least four hours from the 400 level		
No more than eight hours of travel, internship, independent study and research credit may be counted toward economics elective credit.		

TOTAL	46 sh
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A minor in Economics requires the following courses:

MTH 112	General Statistics	4 sh
ECO 201	Principles of Economics	4 sh
ECO 203	Statistics for Decision-Making	4 sh
One course from the following:		4 sh
ECO 310	Intermediate Macroeconomic Theory	
ECO 311	Intermediate Microeconomic Theory	
Eight hours from other ECO electives		8 sh
No more than four hours of travel, internship, independent study and research credit may be counted toward economics elective credit.		

TOTAL	24 sh
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ECO 201. PRINCIPLES OF ECONOMICS

4 sh

An introduction to the fundamentals of both microeconomics and macroeconomics, including supply and demand, the theory of the firm, consumer behavior, macroeconomic equilibrium, unemployment and inflation. The course also introduces students to economic methodology, including creating arguments, empirical verification and policy decision-making. Offered fall, spring and summer.

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ECO 203. STATISTICS FOR DECISION-MAKING

4 sh

Applications of statistics to create knowledge useful for decision-making. Bayesian probability, hypothesis testing, process and quality control and multivariate statistics, including multiple linear regression and forecasting are among the topics covered. A standard spreadsheet program will be used for most applications and oral and written presentation of statistical results will be required. Prerequisite: MTH 112.

ECO 271. SEMINAR: ECONOMIC ISSUES

1-4 sh

A series of courses covering contemporary issues in economics not otherwise covered in the curriculum. The topics will vary around a common theme of timeliness. These courses are appropriate to students from across the university irrespective of major or level.

ECO 301. BUSINESS ECONOMICS

4 sh

What functions do firms serve, and where do firms fit in a market economy? We will explore these questions by analyzing two perspectives. The first perspective is that firms are rational agents in markets, maximizing profits subject to the constraints of demand, production, cost and market structure. The second perspective is that a firm is a complex organization that has emerged in response to problems of information, strategy and value maximization. In the first perspective, firms are subordinate to markets. In the second perspective, the firm can often coordinate activity more effectively than mar-

kets. How – and when – is this possible? Applied Microeconomics. Prerequisites: ECO 201, 203 and MTH 116 (or 121). Offered fall, spring and summer.

ECO 302. MONEY AND BANKING

4 sh

Students learn about the history and structure of the U.S. financial system. Exploration of the interaction between the primary financial markets – money, bonds and foreign exchange – is fundamental to this understanding. The theory and conduct of monetary policy is also developed, with particular attention paid to the evolution of the international monetary system. Applied Macroeconomics. Prerequisites: ECO 201 and 203. Offered spring.

ECO 310. INTERMEDIATE MACROECONOMIC THEORY

4 sh

This course concentrates on the theory of economic growth and the business cycle. Building on the simple Keynesian spending model, the IS-LM general equilibrium model is developed. Current policy debates, as well as debates within the discipline are explored and evaluated. Particular emphasis will be placed on the interaction of the theoretical and empirical components of macroeconomics. Prerequisites: ECO 201 and 203. Offered fall.

ECO 311. INTERMEDIATE MICROECONOMIC THEORY

4 sh

With this study of how individual agents, both firms and households, interact in various kinds of markets, students gain a better understanding of household economic behavior, firm behavior and the conditions under which prices can most effectively allocate scarce resources. Prerequisites: ECO 201 and 203. Offered spring.

ECO 314. INTERNATIONAL TRADE AND FINANCE

4 sh

This course focuses on how policies implemented by a country, both in trade and finance, influence its welfare at home and abroad. Topics in trade include specialization and gains from trade, determinants of trade patterns, the role of increased globalization on a nation's competitiveness and its distribution of income, the political economy of protectionism at the national, regional (NAFTA, EU) and international (WTO) levels as well as the use of trade policies to influence development and growth. Topics in finance include balance on international payments, the foreign exchange market, the economic policy adjustments under fixed and flexible exchange rates and focuses on the problems of international finance and international investments across countries. Applied Macroeconomics. Prerequisite: ECO 201. Offered spring.

ECO 315. ECONOMIC HISTORY

4 sh

This course introduces and analyzes the importance of economic issues in the history of nations and regions. In the words of J.M. Keynes, "Indeed the world is driven by little else." The course is structured so that work will focus on a particular region of the world. The overarching objective of the course is to develop students' appreciation of the importance of economic activity and economic structures in the historical development of society. Prerequisites: junior standing or ECO 201.

ECO 317. GENDER AND DEVELOPMENT

4 sh

This course is designed to help students investigate the economic status of women in the labor market, how that role has changed over time and the differences between labor market outcomes for both men and women. It involves a comparison of women and men with respect to labor supply (market and nonmarket work), wage rates, occupational choices, unemployment levels and the changing role of work and family. Topics include discrimination, pay inequity, occupational segregation, traditional and nontraditional work, resource ownership, poverty, race, the global economic status of women and public policy issues such as comparable worth and family-friendly policies designed to bridge the gap between women and men. Prerequisites: junior standing or ECO 201.

ECO 335. ENVIRONMENTAL ECONOMICS

4 sh

This course explores the interactions of economic forces and policies with environ-

mental issues. What are the costs of pollution and what are we buying for those costs? Who bears the burden of environmental damage? How might we reduce environmental impact and how do we decide how much damage is appropriate? Applied Microeconomics. Prerequisite: ECO 201. Offered fall.

ECO 347. INTRODUCTION TO ECONOMETRICS

4 sh

This course explores the statistical problems associated with the measurement and evaluation of economic models. As such, it requires the simultaneous consideration of economic theory. The focus of the course is on the application of econometric techniques to real world problems encountered in economics. We begin with simple regression analysis and proceed to investigate the problems of multicollinearity, heteroskedasticity and autocorrelation. Advanced topics include limited dependent variable models and cointegration. Prerequisites: ECO 203 and MTH 116 or higher or permission of instructor.

ECO 348. MATHEMATICAL ECONOMICS

4 sh

This course is designed to provide students in economics and mathematics with an opportunity to learn and use the tools of economics in the manner in which they are employed in the profession. While mathematical techniques such as constrained optimization and multi-dimensional modeling will be taught, the principle aim of the course is to develop students' facility with using mathematics as a basis for economic reasoning. Prerequisites: ECO 203 and MTH 116 or higher or permission of instructor.

ECO 351. EUROPEAN UNION (EU) STUDY TOUR

4 sh

This travel course is an opportunity to see the development of the largest single economic unit ever to exist on Earth through the eyes of those who live within it. While traveling through the EU, students meet with people who are directly involved in the day-to-day operation of the European Union bureaucracy and with those who have had a hand in the negotiations that have resulted in the formation of the European Union. Students meet with scholars who have studied the European Union and its likely impacts on various economic, political and social aspects of daily life, both within the European Union and in the rest of the world. The class meets with small business owners who have been and continue to be affected by the developments of the European Union. In addition, we meet with representatives of the United States government and of United States businesses in the European Union. This course is a companion course with BUS 366, which is limited to business majors, and GST 274, which is open to all students. Prerequisite: ECO 201. Enrollment limited to economics majors. This course may not be used to fulfill Advanced General Studies requirements for the university general studies component. Offered in winter term only.

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ECO 352. CAFÉ EUROPA: EASTERN EUROPE IN TRANSITION

4 sh

The end of the communist era began a painful process of economic transition across central and eastern Europe. In this course, students travel in this region and spend time meeting with students and professors to learn about how each nation is dealing with this process of change. Though each country must deal with some of the same issues such as macroeconomic stabilization, privatization, restructuring and legal reform, their experiences have been markedly different. One objective is to explore the interaction between these policy goals and the country-specific factors that have had an effect on their success. This course is a companion course with BUS 366, which is limited to business majors, and GST 257, which is open to all students. Prerequisite: ECO 201. Enrollment limited to economics majors. This course may not be used to fulfill Advanced General Studies requirements for the university general studies component. Offered in winter term only.

ECO 371. SPECIAL TOPICS IN ECONOMICS

1-4 sh

A series of courses reflecting new contributions in economics or specialized areas not otherwise covered in the curriculum. Topics have included "Starting a Small Business," "The European Union via the Internet" and "The Economics of Sport." Prerequisites:

will vary with the topic but will generally include junior standing or ECO 201 and 203.

ECO 381. INTERNSHIP IN ECONOMICS

1-8 sh

This course provides opportunities for students to apply concepts and information gathered in the economics classroom to actual experience in the community. Placements may include businesses, not-for-profit organizations or teaching assistants in lower-division economics classes. Prerequisites: junior standing or ECO 201 and 203 or permission of instructor. Offered fall, winter, spring and summer.

ECO 391. INDEPENDENT STUDY

1-4 sh

Students pursuing the major or minor in economics may complete individual study in an area of special interest that is not otherwise covered in regular course offerings. Study is to be undertaken under the guidance of a member of the economics faculty. An Independent Study form must be completed prior to registration. Prerequisites: junior standing or ECO 201 and 203 or permission of instructor. Offered fall, winter, spring and summer.

ECO 399. RESEARCH IN ECONOMICS

1-4 sh

In collaboration with an economics faculty member, students undertake an empirical or theoretical study of a topic in economics. Research topics may include a review of the relevant research literature, data collection and analysis, and a presentation or report when the study is completed. A research proposal form, completed by the student in conjunction with the faculty member, is required for registration. Students may register for 1-4 hours of credit per semester and may register for more than one semester of research. Prerequisites: junior standing or ECO 201 and 203. Offered fall, winter, spring and summer.

ECO 411. HISTORY OF ECONOMIC THOUGHT

4 sh

Students survey the evolution of economic thought from antiquity to the present and learn to identify and critically evaluate various schools of economic thought. In particular, students will develop a sense of economics as part of the larger sweep of intellectual advancement and the place thoughts about economic matters occupy in human knowledge. Prerequisites: completion or concurrent enrollment in ECO 310 and 311 or permission of instructor.

ECO 421. INDUSTRIAL ORGANIZATION AND REGULATION

4 sh

Industrial organization is a policy course concerned with the structure of firms and markets and their interactions. Real world market frictions such as limited information, transaction costs, costs of adjusting prices, advertising and research and development expenses, government actions and barriers to entry by new firms into a market will be examined. This course offers a critical understanding of specific industries such as computers, airline, automobile, telecommunications, etc. Students study how firms in such industries strategically react to rivals and customers and further examine the impact of antitrust regulation, public utility regulation and social regulation on American business. Applied Microeconomics. Prerequisites: completion or concurrent enrollment in ECO 310 and ECO 311 or permission of instructor.

ECO 430. EXPERIMENTAL ECONOMICS

4 sh

This course will develop your ability to learn from experience. We will explore the general principles of experimental design and review the history of experimental economics. The primary student task in the course will be to design, implement, analyze and describe a significant experiment. We will use the statistical software SAS to analyze the data. No previous experience with SAS is needed. Prerequisites: completion or concurrent enrollment in ECO 310 and 311 or permission of instructor.

ECO 432. PUBLIC FINANCE

4 sh

This course exists at the interface of economics and political science. The principle

issue is an examination of the question: "What is the proper role of government in the economic sphere?" Specific topics include optimal taxation, tax incidence, expenditure analysis, how governments decide among alternative programs, public production and bureaucracy and equity-efficiency tradeoffs. The course deals with the relationships among governments at the federal, state and local levels from both theoretical and applied perspectives. Applications vary from year to year, but will likely include health care, defense, social insurance, welfare and education. Applied Microeconomics.

Prerequisites: completion or concurrent enrollment in ECO 310 and 311 or permission of instructor.

ECO 440. URBAN ECONOMICS AND PLANNING

4 sh

A study of the development of cities and how public policy has and can affect their form and health. Land values, urban problems, urban transportation, zoning and planning and local government finance will be covered. Prerequisites: completion or concurrent enrollment in ECO 310 and 311 or permission of the instructor.

ECO 471. ADVANCED SPECIAL TOPICS IN ECONOMICS

1-4 sh

A series of courses reflecting new contributions in economics or specialized areas not otherwise covered in the curriculum. Prerequisites: will vary with the topic but will generally include completion or concurrent enrollment in ECO 310 and 311. Offered fall, winter and spring.

ECO 481. ADVANCED INTERNSHIP IN ECONOMICS

1-4 sh

This course provides opportunities for students to apply concepts and information gathered in the economics classroom to actual experience in the community. Placements may include businesses, not-for-profit organizations or teaching assistants in lower-division economics classes. Prerequisites: will vary with the topic but will generally include completion or concurrent enrollment in ECO 310 and ECO 311 or permission of instructor. Enrollment limited to economics majors. Offered fall, winter, spring and summer.

ECO 491. ADVANCED INDEPENDENT STUDY

1-4 sh

Students pursuing the major or minor in economics may complete individual study in an area of special interest that is not otherwise covered in regular course offerings. Study is to be undertaken under the guidance of a member of the economics faculty. An Independent Study form must be completed prior to registration. Prerequisites: will vary with the topic but will generally include completion or concurrent enrollment in ECO 310 and ECO 311 or permission of instructor. Enrollment limited to economics majors. Offered fall, winter, spring and summer.

ECO 498. SENIOR THESIS

2-4 sh

This is the culmination of the economics major and serves as the student's required comprehensive evaluation in the major field of study. For this research project, economics majors work individually with a professor to build on work done in previous courses, culminating in a work of presentation quality. The completed work is to be presented in a public forum such as SURF, national or regional professional society meetings or at a campus-level economics symposium. In addition, all students are to present their work before the collected faculty, students and guests of the economics department. Prerequisites: ECO 310, 311 and eight additional hours of economics numbered 300 or above; senior economics major.

ECO 499. ADVANCED RESEARCH

1-4 sh

Students engage in advanced undergraduate research under the direction of an economics department faculty member. Predominately this course will be restricted to economics majors and will be in preparation for their senior thesis. Maximum of eight semester hours total credit. Prerequisites: eligibility as determined by the undergraduate research guidelines of Elon University and approval by the department. Enrollment limited to economics majors.

Education

Chair, Department of Education: Associate Professor Long

Professors: Crawford, Dillashaw, Simon

Associate Professors: Bass, Howard, Stasz, Stuart, Wooten

Assistant Professors: Drake, Rice

The mission of Teacher Education at Elon University is to prepare quality teachers who are knowledgeable, responsible and thoughtful professionals. The conceptual framework, “Thoughtful Practice in a Community of Learners,” reflects the intention to create a learning environment in which teacher candidates inquire and collaborate to develop the knowledge, skills and dispositions for effective professional practice.

Inquiry

1. Seek to understand students’ family and community cultures and to use knowledge to inform practice.
2. Inquire, actively and persistently, about student learning through the use of a variety of assessment procedures.
3. Analyze, through reflective practice, the effectiveness of their instruction and make appropriate adaptations to maximize student learning.

Knowledge

4. Demonstrate in-depth knowledge of the subject area(s) for which they seek licensure.
5. Use knowledge of students’ learning process to inform instruction.
6. Demonstrate understanding of pedagogical knowledge relevant to the subject area(s) for which they seek licensure.
7. Choose appropriately from among multiple instructional strategies to promote optimal student learning.
8. Choose appropriately from among a variety of resources, including technology, to promote active student learning.

Professionalism

9. Establish positive classroom learning environments that support the social and academic growth of students.
10. Hold high expectations for the academic and social growth of all students.
11. Seek opportunities to further personal learning and professional growth.
12. Demonstrate enthusiasm and respect for the profession of teaching.

Elon’s education program prepares teachers for careers in the elementary, middle and high school grades. The program emphasizes practical hands-on experience in classrooms as well as educational theory and methods classes on campus. Yearly field experiences in public school classrooms begin the first year and culminate with a full semester of teaching in the teacher candidate’s licensure area.

Elon is widely recognized for the success of its teacher education program, which is accredited by the National Council for Accreditation of Teacher Education, and is one of only two private institutions in the state selected to offer the prestigious N.C. Teaching Fellows Program.

Elon University offers programs leading to N.C. licensure in elementary education, middle grades education, special education (General Curriculum), special subject areas for grades K-12 and in seven areas at the secondary level.

The student who successfully completes any of the teacher education programs at Elon University will be eligible for licensure to teach in North Carolina. The state of North Carolina is party to the Interstate Certification Compact which qualifies Elon University graduates also to be licensed in all states party to this Compact. Currently there are 26 states which have entered into this reciprocity agreement. Any student planning to teach in a state not a part of the Interstate Certification Compact should obtain a copy of the licensure requirements for a public school teacher from the state superintendent of education of the state in which the student plans to teach.

Before being admitted into the Teacher Education Program, the student must make application to the program, be recommended by the appropriate major department, be interviewed and approved by the Teacher Education Committee and meet minimum score requirements on the Preprofessional Skills Tests. North Carolina requires the following minimum scores: PPST Reading-176, PPST Mathematics-173 and PPST Writing-173. A minimum GPA of 2.5 is required for all coursework completed at the time of admission and must be maintained in order to continue in the program. In addition all students must pass a grammar competency test and earn a grade of C- or better in MTH 210 and PSY 321 to be admitted to the elementary education program or the middle grades program.

In all cases, approval for admission to the program is subject to the discretion of the Teacher Education Committee, which bases its decision not only on the above factors, but also on satisfactory command of standard English usage (written and oral) and mental, physical, moral and emotional acceptability for teaching. The Teacher Education Committee may, at its discretion, dismiss a student from the Teacher Education program.

Application forms for the Teacher Education Program are available in the office of the School of Education and must be filed by October 15 or March 15 of the semester immediately prior to the beginning of the student's junior year. A student must be unconditionally admitted to the program before being permitted to take education courses beyond the 200 level. Exceptions to this policy must be approved by the dean of the School of Education.

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To be recommended for teacher licensure, a teacher candidate must meet all academic requirements and have a minimum GPA of 2.5. A teacher candidate must also meet the North Carolina minimum score on the Specialty Area Test (minimum scores for these tests vary with content area) and have a recommendation from the school system in which student teaching was completed. They must also complete a technology portfolio as required by the North Carolina State Board of Education.

All students who are education majors or who already hold a bachelor's degree and are seeking only licensure are subject to the decisions and regulations of the N.C. State Board of Education. These decisions and regulations are binding on the student on the date and time specified by the Board.

At Elon University, the teacher education programs are fully approved by the N.C. State Board of Education. While a student ordinarily may graduate and be licensed under the catalog requirements in effect at the time the student is admitted to the Teacher Education Program, the Board may mandate changes in standards of approved teacher education programs, requiring students to modify or add to their original degree programs to be eligible for licensure upon completion of graduation requirements. Students should consult their advisor about current program requirements.

A major in Elementary Education consists of the courses necessary to meet the requirements for elementary education (K-6) licensure in the public schools of North Carolina. The following courses are required of all elementary education majors:

FOUNDATIONAL COURSES

BIO 101	Topics in General Biology	3 sh
BIO 102	General Biology Lab	1 sh
SCI 121	Science Without Borders	4 sh
SPN course	To be determined by placement test	4 sh
POL 111	American Government	4 sh
HST 123	The U.S. and N.C. since 1865	4 sh
* MTH210	Mathematics for Elementary and Middle Grades Teachers (GS Math requirement is a prerequisite)	4 sh
CIS 220	Computers and Teaching	3 sh
* PSY 321	Educational Psychology	4 sh
HED 362	Healthful Living in the Elementary School	2 sh
FNA 369	Fine Arts in the Public Schools	4 sh
ENG 398	Children's Literature	4 sh
EDU 211	Introduction to Education with Practicum	4 sh

Cultural Perspective Concentration 12 sh

(see pages 103-108)

Passing score on Grammar Competency Test

EDU 323	Literacy Development I: Principles and Practices	3 sh
EDU 324	Literacy Development II: Strategies & Instruction for Struggling Readers	3 sh
EDU 346	Classroom Management	2 sh
EDU 451	Teaching Diverse Learners	4 sh
	<u>Principles of Learning and Teaching (PLT) I</u>	8 sh
EDU 311	Principles of Learning and Teaching (PLT) I	
	<i>Concentration areas:</i> Language Arts and Social Studies Methods and Materials	
	or	
EDU 312	Principles of Learning and Teaching (PLT) I	
	<i>Concentration areas:</i> Mathematics and Science Methods and Materials	
	and	
	<u>Principles of Learning and Teaching (PLT) II</u>	8 sh
EDU 411	Principles of Learning and Teaching (PLT) II	
	<i>Concentration areas:</i> Language Arts and Social Studies Methods and Materials	
	or	
EDU 412	Principles of Learning and Teaching (PLT) II	

*C- or better required for admission to the program

Concentration areas:

Mathematics and Science Methods and Materials

Students who enroll in EDU 311 will enroll in EDU 412 in the following semester.

Students who enroll in EDU 312 will enroll in EDU 411 in the following semester.

This will ensure that all four content areas are addressed.

EDU 481	Supervised Observation and Student Teaching	10 sh
EDU 482	Capstone Seminar I	2 sh
EDU 483	Capstone Seminar II	2 sh
TOTAL		99 sh

Cultural Perspective Concentrations

Elementary Education majors are encouraged to pursue a minor in one of the following areas:

- African/African American Studies
- Asian Pacific Studies
- Foreign Language
- International Studies
- Latin American Studies
- Women's Studies/Gender Studies

When a minor in one of these areas is not possible, Elementary Education majors are required to choose a minimum of 12 credit hours in a concentration with at least four hours at the 300–400 level. Students are strongly encouraged to study abroad for a semester or winter term to meet these requirements. Courses fulfilling the cultural perspective concentration requirement may, as appropriate, also fulfill general studies requirements. Minors in other areas, with a concentration, are also encouraged.

Following are the approved cultural perspective concentrations:

- Education for Social Justice
- International Studies
- Semester Abroad
- Society and Environment
- Women's Studies/Gender Studies

Education for Social Justice

Students choosing the Education for Social Justice Concentration are encouraged to expand the concentration to complete a minor in one of the following areas:

- African/African American Studies
- Non-Violence Studies
- International Studies Concentration

International Studies

Students choosing the *International Studies Concentration* should begin their course of study with HST/INT 221 (4 sh) World in the Twentieth Century.

Choose one of the following options:

- Foreign Language Study (8 sh of one modern foreign language)
- Regional Concentration
- Africa
- Asian/Pacific
- Europe
- Latin America

Students are encouraged to expand the *International Studies Concentration* to complete a minor in one of the following areas:

- African/African American Studies
- Asian Pacific Studies
- Foreign Language
- International Studies
- Latin American Studies

*Global Studies is not an option.

Semester Abroad

A semester abroad may substitute for the concentration requirements. Check with your advisor for appropriate semester abroad options.

Society and Environment

This concentration is designed for teacher candidates who would like to pursue a more scientific approach to issues of diversity. This concentration is an exceptionally good fit with the elementary science curriculum.

Women's Studies/Gender Studies

Students choosing the Women's Studies/Gender Studies concentration are encouraged to expand the concentration to complete a minor in Women's Studies/Gender Studies.

The courses listed under each concentration provide examples of possibilities. Additional courses may be approved by the department chair in education in consultation with the appropriate department chair or program director. These courses may also count toward general studies requirements.

Education for Social Justice

- | | |
|-------------|--|
| ENG 255 | Topics in Literature (as thematically appropriate) |
| ENG 238 | African-American Literature before 1945 |
| ENG 239 | African-American Literature since 1945 |
| ENG 337 | Asian Literature of Social Change |
| ENG 359 | African-American Novels |
| ENG 370 | Simple Living |
| ENG 372 | Literature of Non-Violence |
| ENG/GST 373 | America and Vietnam |
| MUS 343 | African-American Composers (cross-listed with GST 343) |
| PHL 352 | Eastern Philosophy |
| PHL 348 | Environmental Ethics |
| PHL/GST 330 | Economic Justice |
| HST 133 | Civil Rights Movement |
| HST 363 | African-American History, 1850-Present |
| HST 388 | History of the Caribbean |
| REL 341 | Christian Ethics |
| REL 345 | Theology of Human Liberation |
| REL 348 | Environmental Ethics |
| REL 353 | Buddhism |
| REL 377 | Feminist Ethics |
| REL 279 | Topics in Eastern Religion |

GEO 310	Development and the Environment in Latin America, Africa, Southeast Asia
GEO 320	Geography of Africa
GEO 331	Study Abroad: Analyzing Your Experience
GEO 342	Gender and Environment in South America
POL 141	International Relations
POL 324	Civil Liberties
POL 342	U.S. Foreign Policy
POL 345	International Terrorism
POL 367	Politics of Africa
POL 368	Latin American Politics
POL 374	Judicial Administration
POL 377	Politics of Victimization
POL 441	Peace, War and Conflict Resolution
PSY 325	Psychology of American Protest Music
PSY 327	Psychology of Non-Violence
PSY 357	Criminal Behavior
SOC 241	Social Issues and Problems
SOC 245	Non-Violence of the Brave: From Ghandhi to King
SOC 341	Ethnic and Race Relations
SOC 343	Social and Cultural Change

International Studies

HST/INT 221 (4) World in the Twentieth Century

This course is required in this concentration.

Regional Concentration: Africa

ART 341	African Art (4)
ENG 255	Topics in Literature (as thematically appropriate)
ENG 338	African Experiences in Literature
FRE 362	Francophone Cultures Outside France
HST 313	Modern Africa
HST 314	History of Southern Africa
GEO 320	Geography of Africa
POL/INT 141	International Relations
POL 367	Politics of Africa
JCM 346	African Film
AAA 361	Seminars in African/African American Studies
AAA 491	Independent Study

Regional Concentration: Asian/Pacific

ENG 255	Topics in Literature (as thematically appropriate)
ENG 337	Asian Literature of Social Change
PHL 352	Eastern Philosophy
PHL 353	Zen and the Culture of Japan
HST 320	China, Japan and the Pacific Century
REL 353	Buddhism
REL 356	Hinduism
POL/INT 141	International Relations

POL 363	Politics of Asia
POL 365	Politics of Eurasia
SOC 329	Peoples & Cultures of Southeast Asia
SOC 344	Socio/cultural Change in India
ENS 310	Environmental Issues of Southeast Asia

Regional Concentration: Europe

ENG 222	British Literature II
ENG 325	Romanticism
ENG 326	Realism and the Later 19th Century
ENG 356	The Novel: British Women Writers
PHL 433	Marx, Darwin and Freud
FRE 332	Introduction to French Literature II
FRE 361	French Civilization
SPN 332	Spanish Literature II
SPN 361	Spanish Civilization
HST 316	The History of Imperial Russia to 1917
HST 317	Russia & the Soviet Union since 1917
HST 324	England Within the British Empire
HST 326	History of Ireland
HST 327	History of Scotland
HST 335	Growth of Modern Europe
HST 336	Europe, 1914-1945
HST 337	Europe, 1945 to present
HST 338	Germany, Democracy, & Hitler 1914-1945
HST 339	A History of the Holocaust
POL/INT 141	International Relations
POL 364	Politics of Europe
POL 365	Politics of Eurasia
POL 428	Comparative Public Policy

Regional Concentration: Latin America

ENG 255	Topics in Literature (as thematically appropriate)
ENG 335	Latin American Literature and Culture
SPN 341	Latin American Literature I: Discovery, Conquest, Colonial Era and Independence
SPN 342	Latin American Literature II: From Modernism to Magic Realism
SPN 362	Latin American Civilization
HST 341	Modern Central American History
HST 350	History of Brazil
HST 351	History of Mexico
HST 353	Colonial Latin America
HST 354	Modern Latin America
GEO 342	Gender and Environment in South America
ENS 365	Natural History, Ecology of Latin America
POL/INT 141	International Relations
POL 368	Latin American Politics
SOC 363	Latin American Social Movements
SOC 364	Inequality and Development in Latin America

Society and Environment

ENG 339	American Environmental Writers
PHL/REL 348	Environmental Ethics
ECO 335	Economics of Environmental Issues (prereq. ECO 201)
GEO 310	Development and the Environment in Latin America, Africa and South Asia
POL 224	Environmental Policy and Law
POL 344	International Environmental Policy
BIO 112, 114	Introduction to Population Biology and Lab
BIO 215	Organismal Biology and Field Techniques
ENS 111, 113	Introduction to Environmental Science and Lab
PHY 110	Energy and the Environment
BIO 335	IS Field Biology in Belize
BIO 379	IS Field Biology in the Galapagos
ENS 310	Environmental Issues of Southeast Asia
ENS 365	Natural History, Ecology of Latin America
ENS 372	Environmental Visions – Alternative Futures
BIO 344	Evolution
ENS/GEO	350 Introduction to Geographic Information Systems

Women's Studies/Gender Studies

ENG 255	Topics in Literature (as thematically appropriate)
ENG 333-WG	Women in Literature: Feminist Approaches
ENG 356-WG	The Novel: British Women Writers
ENG 361-WG	Gender Issues in Cinema
PHL 345-WG	Feminist Philosophy
HST 364-WG	History of Women in the U.S.
REL 347-WG	Women and Religion
ECO 270-WG	Economics of Gender
GEO 342	Gender and Environment in South America
POL 241-WG	International Relations
PSY 215-WG	Psychology of Personal Relationships
PSY 315-WG	Psychology of Sex and Gender
SOC 311-WG	The Family
SOC 345-WG	Sociocultural Perspectives on Gender
GST 270-WG	Women, Men and Society
GST 257-WG	Women, Culture and Development
GST 369-WG	Men and Masculinity
GST 269	Women and Leadership
WGS 300	Current Controversies in Feminism
WGS 461-469	Special Topics in Women's Studies/Gender Studies
WGS 481	Internship in Women's Studies/Gender Studies
WGS 491	Independent Study

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A major in Special Education (General Curriculum) consists of the courses necessary to meet the requirements for special education (K-12) initial licensure in North Carolina. The following courses are required of all special education majors:

ENG 250	Interpretations of Literature
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4 sh

FNA 369	Fine Arts in the Public Schools	4 sh
HED 362	Healthful Living in the Elementary School	2 sh
HST 112	Europe and the Mediterranean World since 1660	4 sh
HST 123	The U.S. and N.C. since 1865	4 sh
GEO 131	The World's Regions	4 sh
POL 111	American Government	4 sh
BIO 101	Topics in General Biology	3 sh
BIO 102	General Biology Lab	1 sh
CHM 101/102	Basic Concepts in Chemistry/Lab	4 sh or
PHY 110	Energy and the Environment	4 sh
PSY 321	Educational Psychology	4 sh
MTH 210	Mathematics for Elementary and Middle Grades Teachers (GS Math requirement is a prerequisite)	4 sh
CIS 220	Computers and Teaching	3 sh
EDU 211	Introduction to Education with Practicum	4 sh
EDU 342	Foundations of Special Education	3 sh
EDU 345	Planning and Managing the Learning Environment for Students With Exceptional Learning Needs	4 sh
EDU 435	Assessment Methods and Interpretation in Special Education	4 sh
EDU 444	Language, Literacy and Mathematics in Special Education	4 sh
EDU 445	Teaching/Learning Strategies for Students with Exceptional Learning Needs	4 sh
	Principles of Learning and Teaching (PLT) I	8 sh
EDU 311	Principles of Learning and Teaching (PLT) I Concentration areas: Language Arts and Social Studies Methods and Materials	
	or	
EDU 312	Principles of Learning and Teaching (PLT) I Concentration areas: Mathematics and Science Methods and Materials	
	and	
	Principles of Learning and Teaching (PLT) II	8 sh
EDU 411	Principles of Learning and Teaching (PLT) II Concentration areas: Language Arts and Social Studies Methods and Materials	
	or	
EDU 412	Principles of Learning and Teaching (PLT) II Concentration areas: Mathematics and Science Methods and Materials	
	or	
	Two of the following methods courses:	8 sh
	EDU 421 Materials and Methods of Teaching Middle Grades and Secondary English	

EDU 422	Materials and Methods of Teaching Middle Grades and Secondary Mathematics	
EDU 424	Materials and Methods of Teaching Middle Grades and Secondary Science	
EDU 425	Materials and Methods of Teaching Middle Grades and Secondary Social Studies	
EDU 480	Student Teaching Seminar	2 sh
EDU 481	Student Teaching	10 sh
TOTAL		96 sh

A major in Middle Grades Education consists of the courses necessary to meet the requirements for middle grades (6-9) licensure in the public schools of North Carolina. The following Core Courses are required of all middle grades majors:

CIS 220	Computers and Teaching	3 sh
PSY 321	Educational Psychology	4 sh
SPN course	To be determined by placement test	4 sh
EDU 211	Introduction to Education with Practicum	4 sh
EDU 324	Literacy Development II: Strategies & Instruction for Struggling Readers	3 sh
EDU 346	Classroom Management	2 sh
EDU 441	Foundations of Middle Level Education	3 sh
EDU 442	Effective Middle Level Teaching	4 sh
EDU 451	Teaching Diverse Learners	4 sh
EDU 481	Supervised Observation and Student Teaching	10 sh
EDU 482	Capstone Seminar I	2 sh
EDU 483	Capstone Seminar II	2 sh
	One subject area concentration	28 sh
TOTAL		73 sh

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In addition to the **Core Courses**, a student majoring in middle grades education must select one subject area concentration from the following:

Communication Skills Concentration

ENG 205	Grammar	4 sh
ENG 224	American Literature II	4 sh
ENG 250	Interpretations of Literature	4 sh
ENG 319	Writing Center Workshop	4 sh
ENG 399	Young Adult Literature	4 sh
EDU 421	Materials and Methods of Teaching Middle Grades and Secondary English	4 sh
	One course from the following:	4 sh
ENG 238	African-American Literature before 1945	
ENG 239	African-American Literature since 1945	
ENG 359	African-American Novels	
TOTAL		28 sh

Social Studies Concentration

ECO 201	Principles of Economics	4 sh
GEO 131	The World's Regions	4 sh
HST 112	Europe and the Mediterranean World since 1660	4 sh
HST 123	U.S. & N.C. Since 1865	4 sh
HST 221	The World in the Twentieth Century	4 sh
POL 111	American Government	4 sh
EDU 425	Materials and Methods of Teaching Middle Grades and Secondary Social Studies	4 sh

TOTAL		28 sh
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Mathematics Concentration

MTH 112	General Statistics	4 sh
MTH 115	Trigonometry	4 sh
MTH 121	Calculus and Analytic Geometry I	4 sh
MTH 221	Calculus and Analytic Geometry II	4 sh
MTH 210	Mathematics for Elementary and Middle Grades Teachers	4 sh
MTH 206	Discrete Structures	4 sh
EDU 422	Materials and Methods of Teaching Middle Grades and Secondary Mathematics	4 sh

TOTAL		28 sh
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Science Concentration

BIO 101	Topics in General Biology	3 sh
BIO 102	General Biology Lab	1 sh
SCI 121	Science without Borders	4 sh
CHM 111	General Chemistry I	3 sh
CHM 113	General Chemistry Lab	1 sh
PHY 110	Energy and the Environment	4 sh
PHY 102	Introduction to Astronomy	4 sh
PHY 103	Introduction to Geology	4 sh
EDU 424	Materials and Methods of Teaching Middle Grades and Secondary Science	4 sh

TOTAL		28 sh
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The student planning to teach at the high school level completes a major in a discipline and the necessary **Professional Studies** courses for teacher licensure at the secondary level (grades 9-12). Secondary education licensure is available in biology, chemistry, comprehensive science, English, history, mathematics, physics and social studies. Specific requirements for each program are listed with the appropriate department in this catalog. In general, the following Professional Studies courses must be satisfactorily completed:

EDU 211	Introduction to Education with Practicum	4 sh
EDU 322	Reading in the Content Areas	2 sh
	Choose an appropriate methods course:	4 sh

EDU 421	Materials and Methods of Teaching Middle Grades and Secondary English	
EDU 422	Materials and Methods of Teaching Middle Grades and Secondary Mathematics	
EDU 424	Materials and Methods of Teaching Middle Grades and Secondary Science	
EDU 425	Materials and Methods of Teaching Middle Grades and Secondary Social Studies	
EDU 430	Foundations of Education	3 sh
EDU 450	Meeting Special Learning Needs of Children	3 sh
EDU 480	Student Teaching Seminar	2 sh
EDU 481	Supervised Observation and Student Teaching	10 sh
CIS 220	Computers and Teaching (Not required for Mathematics Education majors)	3 sh
PSY 321	Educational Psychology	4 sh
TOTAL		35 sh

Programs leading to licensure in Special Subject Areas (K-12) level are available in French, health education, music education, physical education and Spanish. Specific requirements for these programs are listed with the appropriate department in this catalog. In general, the following Professional Studies courses must be satisfactorily completed:

EDU 211	Introduction to Education with Practicum	4 sh
EDU 322	Reading in the Content Areas	2 sh
One of the following courses:		4 sh

EDU 423	Materials and Methods of Teaching Physical Education	
EDU 427	Materials and Methods of Teaching Health and Safety	
EDU 428	Materials and Methods of Teaching Foreign Languages	
MUS 461	Music Education in the Public Schools	
EDU 430	Foundations of Education	3 sh
EDU 450	Meeting Special Learning Needs of Children (Not required for Physical Education majors)	3 sh
EDU 480	Student Teaching Seminar	2 sh
EDU 481	Supervised Observation and Student Teaching	10 sh
CIS 220	Computers and Teaching	3 sh
PSY 321	Educational Psychology	4 sh
Total		35 sh

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EDU 211. INTRODUCTION TO EDUCATION WITH PRACTICUM 4 sh

This course is designed to introduce prospective teacher candidates to the social, historical, legal and philosophical foundations of American education. Students examine critical issues that impact public education in the 21st century. An integrated field experience enables students to analyze instructional practices related to classroom management, learning environment and meeting the needs of learners who are diverse in culture, language and ability. Offered fall, winter and spring.

EDU 311. PRINCIPLES OF LEARNING AND TEACHING I: LANGUAGE ARTS AND SOCIAL STUDIES METHODS AND MATERIALS 8 sh

Students learn how to investigate, evaluate and select content, methods and materials used in organizing and teaching language arts and social studies in elementary school. They develop appropriate curricula and examine personal beliefs and dispositions. They design and implement differentiated lessons based on state standards and develop technology-enhanced, project-based learning units. They gain a sound pedagogical knowledge base, an understanding of the importance of inquiry and professionalism and have opportunities to participate in a community of learners. A concurrent practicum offers opportunities to apply concepts and skills. Prerequisites: EDU 211, PSY 321, CIS 220. Prerequisite or corequisite: EDU 321. Admission to Teacher Education Program. Offered fall and spring.

EDU 312. PRINCIPLES OF LEARNING AND TEACHING I: MATHEMATICS AND SCIENCE METHODS AND MATERIALS

8 sh

Students learn how to investigate, evaluate and select content, methods and materials used in organizing and teaching mathematics and science in the elementary school. They develop appropriate curricula and examine personal beliefs and dispositions. They design and implement differentiated lessons based on state standards and develop technology-enhanced, project-based learning units. They gain a sound pedagogical knowledge base, an understanding of the importance of inquiry and professionalism and have opportunities to participate in a community of learners. A concurrent practicum offers opportunities to apply concepts and skills. Prerequisites: EDU 211, MTH 210, PSY 321, CIS 220. Admission to Teacher Education Program. Offered fall and spring.

EDU 321. READING IN THE ELEMENTARY SCHOOL

4 sh

Study focuses on developing the philosophical framework, knowledge and methodology necessary for planning learning experiences to enhance students' language development. Key course components include theory and process, pedagogy, assessment, the learner and professional development. Prerequisites: EDU 211, PSY 321. Corequisites: EDU 311, 312, 411 or 412. Admission to the Teacher Education Program. Offered fall and spring.

EDU 322. READING IN THE CONTENT AREAS

2 sh

The focus of this course is on reading strategies to guide middle school and high school instruction. Prospective teachers apply readability formulas to content area readings and design activities to promote vocabulary development, comprehension, study skills and writing. Prerequisites: EDU 211, PSY 321. Offered fall and spring.

EDU 323. LITERACY DEVELOPMENT I: PRINCIPLES AND PRACTICES

3 sh

This course involves the study of the fundamental processes by which a child learns to read both linear and non-linear communication. Attention is given to readiness factors, vocabulary development, word attack, comprehension skills, assessment, writing and reading, interest in reading, the interrelatedness of all areas of the language arts to the reading process, and the integration of technology into the development of literacy. A variety of methodologies and instructional strategies focusing on providing balanced reading instruction to meet diverse student strengths and needs include language experience, phonics, reading for meaning, literature circles, reading workshop, basal book, electronic book discussions, technology projects and monitoring reading progress. Prerequisites: EDU 211, PSY 321. Admission to the Teacher Education Program. Corequisites: EDU 311, 312, 411 or 412. Offered fall and spring.

EDU 324. LITERACY DEVELOPMENT II: STRATEGIES & INSTRUCTION FOR STRUGGLING READERS

3 sh

The focus of this course is on planning and modifying elementary classroom instruction to address the needs of children who, for a variety of reasons, experience difficulty in acquiring basic literacy skills. Emphasis is placed on using assessment of children's strengths and weaknesses to guide instructional decision-making. Students practice administering a variety of diagnostic tools, interpreting the data, and using the information to design and, when warranted, modify instruction. They acquire skills necessary to

design explicit, systematic instruction in phonemic awareness, decoding, spelling, reading fluency, vocabulary, reading comprehension, and writing. Prerequisites: EDU 211, PSY 321 (for all students), and EDU 323 or EDU 441 (Middle Grades only). Admission to the Teacher Education Program. Corequisite: EDU 311, 312, 411 or 412. Offered fall and spring.

EDU 342. FOUNDATIONS OF SPECIAL EDUCATION

3 sh

This course addresses the evolution of the field of special education, its philosophical and theoretical foundations, legal underpinnings, and current trends and controversies. Emphasis is on acquiring a broad knowledge base regarding the characteristics of students with exceptional learning needs and the process and procedures for providing special education. Consideration is given to how issues of human diversity impact families, cultures, and schools and how these issues affect delivery of special education services. Offered fall.

EDU 345. PLANNING AND MANAGING THE LEARNING ENVIRONMENT FOR STUDENTS WITH EXCEPTIONAL LEARNING NEEDS

4 sh

This course provides teacher candidates with the competencies and skills to use positive behavioral supports to establish a classroom environment that promotes the academic and social development of students with exceptional learning needs. Candidates will learn to use strategies such as social skills training, functional behavioral assessment, cognitive problem solving and self-regulation of behavior. The needs of families and how to involve families in educational programming for their children are considered. Offered spring.

EDU 346. CLASSROOM MANAGEMENT

2 sh

This course focuses on the important aspects of establishing a healthy, positive classroom environment that promotes children's academic growth and social development. The role of the teacher in regard to managing student behavior will be explored from the cognitive, ecological and behaviorist perspectives. Teacher candidates are taught to take a proactive stance toward behavior management, thereby decreasing problem behaviors in the classroom. Included in this course are strategies for establishing a classroom in which children feel safe to take academic risks, as well strategies for effectively addressing specific behavior problems. The important role of family involvement will be discussed, as well as means of effectively inviting family members to form beneficial partnerships with classroom teachers. Co-requisite: EDU 311, 312, 411, or 412. Admission to the Teacher Education Program.

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EDU 347. NATURE AND NEEDS OF STUDENTS WITH LEARNING DISABILITIES

3 sh

A course designed to consider the specific area of disability in depth, including etiology, prevalence and characteristics. This course will review and analyze current practice and research on issues relating to the education of students with learning disabilities. Historical and legal aspects pertaining to the particular area of disability will be reviewed as well. Offered winter.

EDU 411. PRINCIPLES OF LEARNING AND TEACHING II:

LANGUAGE ARTS AND SOCIAL STUDIES METHODS AND MATERIALS

8 sh

Students learn how to investigate, evaluate and select content, methods and materials used in organizing and teaching language arts and social studies in the elementary school. They develop appropriate curricula and examine personal beliefs and dispositions. Building on knowledge acquired in PLT I, students design and implement integrated technology-enhanced, problem-based learning units, incorporating the elements of Universal Design (UD). National standards provide the context. They gain a more in-depth pedagogical knowledge base, a deeper understanding of the importance of inquiry and professionalism and have additional opportunities to participate in a community of learners. A concurrent practicum offers opportunities to apply concepts and skills. Prerequisites: EDU 211, PSY 321, CIS 220, EDU 312. Prerequisite or corequisite: EDU 321. Admission to Teacher Education Program. Offered fall and spring.

EDU 412. PRINCIPLES OF LEARNING AND TEACHING II:**MATHEMATICS AND SCIENCES METHODS AND MATERIALS****8 sh**

Students learn to investigate, evaluate and select content, methods and materials used in organizing and teaching mathematics and science in the elementary school. They develop and implement appropriate curricula and examine personal beliefs and dispositions. Building on knowledge acquired in PLT I, students design and implement integrated technology-enhanced, problem-based learning units, incorporating the elements of Universal Design (UD). National standards provide the context. They gain a more in-depth pedagogical knowledge base, a deeper understanding of the importance of inquiry and professionalism and have additional opportunities to participate in a community of learners. A concurrent practicum offers opportunities to apply concepts and skills. Prerequisites: EDU 211, PSY 321, CIS 220, EDU 311, MTH 210. Admission to Teacher Education Program. Offered fall and spring.

EDU 421. MATERIALS AND METHODS OF TEACHING MIDDLE GRADES AND SECONDARY ENGLISH**4 sh**

In this study of the content and organization of the English curriculum with emphasis on methods and materials used in teaching literature, language skills and composition, students review print and nonprint media, create lesson and unit plans, lead classroom discussions and conduct teaching demonstrations. Public school classroom observation and assistance are required. Prerequisites: EDU 211, PSY 321. Offered fall semester.

EDU 422. MATERIALS AND METHODS OF TEACHING MIDDLE GRADES AND SECONDARY MATHEMATICS**4 sh**

Students study the objectives and content of the mathematics curriculum in grades 6-12, including the materials, techniques and methods of evaluation used in teaching mathematics in middle and high school grades. A practicum in the public schools is required. Prerequisites: EDU 211, PSY 321. Offered fall semester.

EDU 423. MATERIALS AND METHODS OF TEACHING PHYSICAL EDUCATION**4 sh**

This course covers the methods, materials and techniques of teaching physical education, including organization and planning of the total curriculum and daily programs. Students also observe and conduct activity classes. Public school practicum required. Prerequisites: EDU 211, PSY 321. Offered fall semester.

EDU 424. MATERIALS AND METHODS OF TEACHING MIDDLE GRADES AND SECONDARY SCIENCE**4 sh**

Students develop, select and evaluate content, methods and materials used in teaching science at the middle- or high- school level. Study examines current trends in teaching the natural sciences and addresses safety concerns. Observations and practicum in middle and/or high schools required. Prerequisites: EDU 211, PSY 321. Offered fall semester.

EDU 425. MATERIALS AND METHODS OF TEACHING MIDDLE GRADES AND SECONDARY SOCIAL STUDIES**4 sh**

This study of the materials and methods of teaching social studies emphasizes planning, organization, objectives and evaluation. Public school practicum required. Prerequisites: EDU 211, PSY 321. Offered fall semester.

EDU 427. MATERIALS AND METHODS OF TEACHING HEALTH AND SAFETY**4 sh**

This course emphasizes methods of curriculum planning, analyzing and developing content area, unit plans and teaching approaches for all levels of school (K-12). Public school practicum required. Prerequisites: EDU 211, PSY 321. Offered fall semester, even-numbered years.

EDU 428. MATERIALS AND METHODS OF TEACHING FOREIGN LANGUAGES**4 sh**

This study of the content and organization of the foreign language curriculum in the public schools emphasizes methods and materials used in teaching at all levels (K-12) and covers how teaching the four basic skills and the target culture varies at each level.

Students discuss theories of planning, instruction, choice of materials and evaluation, and gain practical experience by participating in a public school classroom.

Prerequisites: EDU 211, PSY 321. Offered fall semester.

EDU 430. FOUNDATIONS OF EDUCATION

3 sh

This foundations course is a study of the historical development and philosophical basis for public education in the U.S., including the role and influence of schools in society and the teacher's role as it has emerged from the philosophies, practices and policies of public education. Offered fall and spring.

EDU 435. ASSESSMENT METHODS AND INTERPRETATION IN SPECIAL EDUCATION

4 sh

This course provides teacher candidates with knowledge required to design assessment plans for students with exceptional learning needs. Consideration is given to legal policies and ethical principles in regard to the administration and interpretation of assessment procedures. Candidates learn to evaluate standardized assessment instruments in terms of reliability, validity and adequacy of norm sample and to collaborate with families and other professionals to gather information and share assessment results. Offered spring.

EDU 441. FOUNDATIONS OF MIDDLE LEVEL EDUCATION

3 sh

This course provides a foundation for middle level (6-9) education majors with concentrations in math, science, social studies and language arts. The course explores the unique physical, intellectual, social and personal characteristics of the young adolescent (age 10-14) with implication for curriculum development and instruction. Emphasis is on young adolescent learning needs, middle school philosophy and organization, classroom diversity with emphasis on students with limited English proficiency, and responsive curriculum design. Prerequisites: Admission to program.

EDU 442. EFFECTIVE MIDDLE LEVEL TEACHING

4 sh

This course is designed for middle grades majors (6-9) with concentration areas in math, science, social studies and language arts. The course builds upon and extends the foundational experiences in EDU 441 through in-depth exploration of theory as related to young adolescent learning; focused inquiry, collaboration and teaching on middle level interdisciplinary teams; service learning instructional design; and scholarly research related to issues of diversity, access to learning, and literacy; management of the learning environment; and professional leadership. Prerequisite: EDU 441

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EDU 444. LANGUAGE, LITERACY AND MATHEMATICS METHODS IN SPECIAL EDUCATION

4 sh

In this course teacher candidates become familiar with the theory and research base on effective instructional techniques for children with exceptional learning needs. They learn how to apply specific methods that involve explicit, systematic and intensive instruction to help children with learning difficulties acquire foundational skills in reading, language arts and mathematics. Candidates learn to use curriculum-based assessment as a basis for planning, monitoring and modifying instruction. Offered fall.

EDU 445. TEACHING AND LEARNING STRATEGIES FOR STUDENTS WITH EXCEPTIONAL LEARNING NEEDS

4 sh

This course focuses on effective teaching and learning strategies for adolescents with mild to moderate learning needs. The course emphasizes strategies that reflect a cognitive/metacognitive instructional approach to learning. Consideration is given to the use of technology as a tool for learning and to the assessment of strategy effectiveness by monitoring student progress. Teacher candidates learn to consider learning environments, cultural, linguistic and socioeconomic factors in addition to student abilities in their selection and use of strategies. Offered fall.

EDU 450. MEETING SPECIAL LEARNING NEEDS OF CHILDREN

3 sh

This course prepares teachers for using individualized programs for students with spe-

cial learning needs. Students survey the literature related to instruction of these students, including assessing individual needs and modes of learning with implications for mainstreamed classroom teaching. Admission to the Teacher Education Program. Offered fall and spring.

EDU 451. TEACHING DIVERSE LEARNERS

4 sh

This course is designed to prepare general education teacher candidates to teach Exceptional Children (EC) in the regular education classroom. The course includes readings and discussion of the collaborative skills necessary for general education teachers to effectively work with special education teachers and other professionals involved with the education of Exceptional Children. The role of the regular education teacher in identifying Exceptional Children and participating in the special education referral process is explored. Characteristics of various exceptional groups of children are described. Discussions and readings also focus on pertinent academic modifications and accommodations in the regular education classroom for students with exceptional learning needs. Co-requisite: EDU 311, 312, 411, or 412. Admission to the Teacher Education Program.

EDU 480. STUDENT TEACHING SEMINAR

2 sh

This seminar focuses on classroom management strategies, legal aspects of teaching, the teacher as decision-maker and creating a professional development plan. Must be taken concurrently with EDU 481. Offered fall and spring.

EDU 481. SUPERVISED OBSERVATION AND STUDENT TEACHING

10 sh

Students experience the classroom full-time for one semester, with periodic conferences with the university supervisor(s) and classroom teacher(s). The student becomes acquainted with the duties and observes the methods and activities of an experienced teacher, with gradual induction into full-time teaching responsibilities. Corequisite: EDU 480. Prerequisites: EDU 211 and grade of C or better in appropriate methods course(s). Offered fall and spring.

EDU 482. CAPSTONE SEMINAR I

2 sh

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This course is an inquiry-based capstone seminar that explores interrelatedness of cultural, political and philosophical issues that impact K-12 education locally and internationally. Through focused inquiry, teacher candidates gain in-depth knowledge about challenges and opportunities they will face as professional leaders. This course is taken during the semester prior to the student teaching semester. Prerequisite: Admission to Teacher Education Program.

EDU 483. CAPSTONE SEMINAR II

2 sh

This course is an inquiry-based capstone seminar that is taken concurrently with student teaching. It is designed to strengthen the professional skills of reflection as related to instructional practice, assessment of student learning and analysis of personal philosophy. Co-requisite: Student Teaching

EDU 499. RESEARCH

1-4 sh

Students engage in undergraduate research under the direction of an education department faculty member. Maximum of eight semester hours total credit. Prerequisites: eligibility as determined by the undergraduate research guidelines of Elon University and approval by the department.



Engineering

Director: Associate Professor D'Amato

Engineers have the opportunity to be of profound service to humanity. Engineering means problem solving. Through the application of mathematics and science, an engineer may be solving problems dealing with energy, space exploration, environmental issues, product manufacturing, construction or any number of interesting areas of study. Possible engineering degrees include: aerospace engineering, biomedical engineering, chemical engineering, civil engineering, computer engineering, electrical engineering, environmental engineering, industrial engineering, materials science engineering, mechanical engineering, nuclear engineering, and textile engineering.

The unique dual degree engineering programs at Elon support students in working toward two degrees: one from Elon and one from an engineering university. Elon currently has affiliations with North Carolina State University, Georgia Tech, Virginia Tech, Columbia University, Washington University (St. Louis) and North Carolina A&T State University. The student will complete three years at Elon. These years will include a full array of science, mathematics, computer science and general studies courses along with their discipline-specific courses. Also included will be foundational engineering courses every fall and spring taught by engineering faculty. After finishing these three years at Elon and also satisfying the entry requirements of the affiliate engineering university, the student will transfer to this engineering institution, normally for two more years. Upon completion of these years of study, a student will receive a B.S. degree from Elon in Engineering Physics, Environmental Studies/Environmental Engineering or Engineering Mathematics or an A.B. degree in Chemistry/Chemical Engineering or Computer Science/Engineering. Students will also receive a B.S. degree from the engineering school in an engineering area of choice. Students must complete Elon's General Studies Program requirements, the engineering core and one of the five options listed below.

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All dual degree engineering programs require the following core courses:

CHM 111	General Chemistry I	3 sh
CHM 113	General Chemistry I Lab	1 sh
CHM 112	General Chemistry II	3 sh
CHM 114	General Chemistry II Lab	1 sh
PHY 113	General Physics I with Calculus w/lab	4 sh
PHY 114	General Physics II with Calculus w/lab	4 sh
MTH 121	Calculus and Analytic Geometry I	4 sh
MTH 221	Calculus and Analytic Geometry II	4 sh
MTH 321	Calculus and Analytic Geometry III	4 sh
MTH 421	Differential Equations	4 sh
CSC 130	Introduction to Computer Science	4 sh

TOTAL
36 sh
Engineering Foundations

EGR 101	Introduction to Engineering	1 sh
EGR 102	Introduction to Engineering Graphics and Design	2 sh
EGR 206	Engineering Mechanics - Statics	3 sh
EGR 208	Engineering Mechanics - Dynamics	3 sh

EGR/PHY 211 Circuit Analysis	3 sh
EGR/PHY 212 Circuit Analysis Lab	1 sh
EGR/PHY 310 Engineering Thermodynamics	4 sh
TOTAL	17 sh

The student will select one of the following five options:

I. Engineering Physics

PHY 213 Introduction to Modern Physics	4 sh
PHY 271 Computational/Calculational Methods	4 sh
PHY 311 Classical Electrodynamics	4 sh
PHY 397-98 Physics Lab/Seminar	4 sh
Four semester hours of Physics at the 300-400 level (excluding PHY 305)	4 sh
TOTAL	20 sh

II. Engineering Mathematics

MTH 231 Mathematical Reasoning	4 sh
MTH 311 Linear Algebra	4 sh
MTH 312 Abstract Algebra	4 sh
MTH 341 Probability Theory and Statistics	4 sh
MTH 415 Numerical Analysis	4 sh
CSC 230 Algorithm Development	4 sh
TOTAL	24 sh

III. Computer Science/Engineering

MTH 206 Discrete Structures	4 sh or
MTH 231 Mathematical Reasoning	4 sh
CSC 230 Algorithm Development	4 sh
CSC 331 Algorithm Analysis	4 sh
CSC 342 Computer Organization and Architecture	4 sh
CSC 351 Theory of Computation	4 sh
CSC 441 Operating Systems/Networking	4 sh

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In addition, one upper-level course in programming languages at another institution (if electrical or computer engineering). For another engineering degree, an additional upper level CSC course is required.

TOTAL	28 sh
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IV. Chemistry/Chemical Engineering

CHM 125 The Chemical Literature	1 sh
CHM 205 Inorganic Chemistry I	4 sh
CHM 211 Organic Chemistry I	3 sh
CHM 213 Organic Chemistry Lab I	1 sh
CHM 212 Organic Chemistry II	3 sh

CHM 214	Organic Chemistry Lab II	1 sh
CHM 311	Quantitative Analysis	4 sh
CHM 332	Physical Chemistry I	4 sh
CHM 461	Senior Seminar	1 sh
TOTAL		22 sh

V. Environmental Studies/Environmental Engineering

POL 224	Environmental Policy and Law	4 sh
REL 348	Environmental Ethics	4 sh
ENS 461	Senior Seminar	4 sh
CHM 211/213	Organic Chemistry I w/Lab	4 sh
BIO 112/114	Intro Population Biology w/Lab	4 sh
BIO 452	General Ecology	4 sh
ENS 215	Organismal Biology and Field Techniques	4 sh
ENS 381	Internship (during summer)	2-4 sh
CE 323	Earth Systems Chemistry at engineering school	4 sh
CE 373	Fundamentals of Env. Engineering at engineering school	3 sh
ST 370	Probability and Statistics for Engineers at engineering school	3 sh
TOTAL		40-42 sh

EGR 101. INTRODUCTION TO ENGINEERING

1 sh

This course provides general information on engineering disciplines, common engineering practices, the engineering profession and history, engineering education, engineering design, engineering ethics and engineering opportunities from the instructor and/or invited speakers. Preliminary work on a design project will be undertaken by student teams. Offered fall.

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EGR 102. INTRODUCTION TO ENGINEERING GRAPHICS AND DESIGN

2 sh

This course introduces the student to graphics as used by engineers. Both hand sketching and computer graphics will develop the student's ability to communicate graphically. This course also investigates the engineering design process. Students will work in teams to acquire a client and design a solution to meet the needs enumerated by this client. This design project is a continuation of design work done in EGR 101. Each aspect of the design process will be discussed. Several exercises will attempt to develop the student's creativity, clarity and focus of thought. The semester will end with a full presentation of each team's design work which will incorporate their newly acquired graphics ability. Offered spring.

EGR 206. ENGINEERING MECHANICS - STATICS

3 sh

This course is designed to introduce students to the effects of forces on bodies in static equilibrium and to familiarize them with mathematical techniques for finding reactive forces in bodies, frames, mechanics and trusses. Concepts covered include forces, moments, couples, equilibrium of rigid bodies, centroids, moments of inertia and friction resistance. Prerequisite: PHY 113. Corequisite: MTH 221. Offered fall.

EGR 208. ENGINEERING MECHANICS - DYNAMICS

3 sh

Kinematics and kinetics of particles in rectangular, cylindrical and curvilinear coordinate systems; energy and momentum methods for particles; kinetics of systems of particles; kinematics and kinetics of rigid bodies in two and three dimensions; and motion relative to rotating coordinate systems are studied. Prerequisites: EGR 206 and MTH 221. Corequisite: MTH 321. Offered spring.

EGR 211. CIRCUIT ANALYSIS	3 sh
This course is an introduction to the theory, analysis and design of electric circuits. Studies include circuit parameters and elements: voltage, current, power, energy, resistance, capacitance, inductance. Also included is the application of Kirchhoff's laws, techniques of circuit analysis, the op-amp, the responses of RL, RC and RLC circuits, an introduction to sinusoidal steady-state analysis, Laplace transforms and Fourier series. Prerequisites: MTH 421 and PHY 114. Corequisite: EGR/PHY 212. Offered spring.	
EGR 212. CIRCUIT ANALYSIS LAB	1 sh
This course involves laboratory application of concepts and principles discussed in EGR 211. Corequisite: EGR/PHY 211. Offered spring.	
EGR 310. ENGINEERING THERMODYNAMICS	4 sh
This course introduces the concept of energy and the laws governing the transfers and transformations of energy. Study emphasizes thermodynamic properties and First and Second Law analysis of systems and control volumes. Integration of these concepts into the analysis of basic power cycles is introduced. Prerequisites: MTH 421 and PHY 114. Offered fall.	
EGR 381. INTERNSHIP IN ENGINEERING	1-4 sh
The internship provides advanced work experiences in some aspect of engineering. It is offered on an individual basis, under the guidance of the engineering program director, when suitable opportunities can be arranged. It will typically be taken in the summer of the sophomore year. This experience will broaden the practical work experience of the student and enhance his/her classroom abilities. Prerequisite: permission of the department. Offered summer.	

English

Chair, Department of English: Professor Lyday-Lee
 Professors: Angyal, Blake, Bland, Boyle, Braye, Gill, Haskell, Warman
 Associate Professors: Boyd, Cassebaum, Gordon, Mackay, Peeples, Schwind
 Assistant Professors: Kapper, Kircher, Myers, Nickoson-Massey, Perry, Rosinski
 Lecturer: Strickland

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The field of English involves the theoretical study of literature, language and writing, as well as the practice of literary criticism and analysis, creative writing and other kinds of writing. The English department provides a balanced curriculum that includes all these elements. A group of six core courses in literature, language study and writing beyond the freshman level ensures that English majors have experience in the three principal areas of the discipline. In addition to the common core, the English curriculum also encourages majors to follow their own talents and interests by requiring one of four distinct concentrations: literature, professional writing and rhetoric, creative writing or English teacher licensure. Double concentrations in the major or minors in literature and creative writing, along with interdisciplinary minors in professional writing and multi-media authoring, are additional options.

A NOTE ON THE GENERAL STUDIES LITERATURE COURSE REQUIREMENT

With the exception of film studies courses, English department courses in the 220-279 and 320-379 range normally fulfill the General Studies literature requirement in Studies in Arts and Sciences. English department courses in the 200-219 and 300-319 range (i.e., courses in language study, writing and creative writing) do NOT normally fulfill that requirement.

A major in English requires 40-42 semester hours. The core requirements, above ENG 110, are:

An ENG 200-level literature course	4 sh
(English Teacher Licensure majors must take ENG 221 British Literature I or ENG 222 British Literature II. If British Literature II is chosen, English Teacher Licensure majors MUST take EITHER ENG 342 Shakespeare: The Tragedies OR ENG 343 Shakespeare: The Comedies as their author course.)	
An ENG 200-level or above writing course (ENG 210-219; 310-319)	4 sh
(Creative Writing majors must take ENG 213 Introduction to Creative Writing.)	
(English Teacher Licensure majors must take ENG 319 Writing Center Workshop.)	
An ENG 200-level or above language course (ENG 200-209; 300-309)	4 sh
(English Teacher Licensure majors must take ENG 205 Grammar. Professional Writing and Rhetoric majors should take either ENG 204 or ENG 304.)	
Three ENG 300-400 level literature courses:	
One historical studies course (ENG 320-329)	4 sh
(English Teacher Licensure majors who do NOT take ENG 331 Advanced World Literature MUST take ENG 321 Classical Literature.)	
One cultural studies course (ENG 330-339)	4 sh
(English Teacher Licensure majors who do NOT take ENG 321 Classical Literature MUST take ENG 331 Advanced World Literature.)	
One author course (ENG 340-349)	4 sh
(English Teacher Licensure majors MUST take ENG 342 Shakespeare: The Tragedies OR ENG 343 Shakespeare: The Comedies if they do NOT take ENG 221 British Literature I.)	

Students must also complete one of the following concentrations:

Literature Concentration

One additional historical studies course (ENG 320-329)	4 sh
Two additional 300-400 level English electives, at least ONE of which must be literature	8 sh
Senior Seminar: Literature	4 sh

TOTAL	40 sh
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Professional Writing and Rhetoric Concentration

One theory course* chosen from:	4 sh
ENG 204 Survey of Professional Writing and Rhetoric	
ENG 304 Topics in Professional Writing and Rhetoric	
*Note: The theory course should be included in the core requirements.	
One applied course chosen from:	4 sh
ENG 211 Writing for the Professions	
ENG 311 Document Research, Management and Production	
ENG 318 Scientific and Technical Communication	
ENG 319 Writing Center Workshop	
Two electives* chosen from:	8 sh
ENG 282, 381, 314, 315, 316, 317	

Possible interdisciplinary electives, with advisor's approval, may be chosen from ART 263, 363; BUS 202; JCM 304, 327, 338, 364.

*Note: English electives may also include any of the applied courses listed above.

Senior Seminar: Professional Writing and Rhetoric	4 sh
TOTAL	40 sh

Teacher Licensure Concentration

ENG 302	History of the English Language	4 sh
ENG 223	American Literature I	4 sh or
ENG 224	American Literature II	
A	300-400 level literature elective	4 sh
JCM 210	Public Speaking	2 sh
Senior Seminar:	Literature	4 sh
Set of Professional education courses		35 sh
TOTAL		77 sh

Creative Writing Concentration

ENG 213	Introduction to Creative Writing (taken in core)	4 sh
ENG 366	Contemporary Writers	4 sh
Choice of two of the following:		8 sh
ENG 214	Creative Writing: Poetry Reading/Writing	
ENG 314	Advanced Creative Writing: Screenplay	
ENG 315	Advanced Nonfiction Writing	
ENG 316	Advanced Creative Writing: Poetry	
ENG 317	Advanced Creative Writing: Fiction	
JCM 344	Screenwriting	
THE 330	Playwriting	
Senior Seminar: Creative Writing		4 sh
TOTAL		40 sh

Double Concentrations

Students are encouraged to pursue a double concentration, either to combine liberal arts and pre-professional training (creative writing/professional writing or literature/professional writing) or to study the interconnectedness of writing and reading (literature/creative writing). Completing a dual concentration in English requires 52 semester hours and must include a capstone experience in each concentration. For more information, see your English major advisor or the English Department chair.

A minor in English requires the following courses above ENG 110. Students may choose either a literature minor or one of the writing minors.

Literature Minor

ENG 250	Interpretations of Literature	4 sh
One ENG language course or one ENG writing course beyond English 110		4 sh
Three ENG literature courses, at least two of which should be at the 300-400 level		12 sh
TOTAL		20 sh

Writing Minors

The writing minors are tailored to meet students' career plans and interests. The minor consists of 20 hours. Of that 20 hours, at least 12 must be from performance courses. In performance courses, the fundamental objective is the development of students' writing abilities. Theory courses focus on the theoretical study of some aspect of language and language use rather than on actual writing practice.

Creative Writing Minors

ENG 213	Creative Writing	4 sh
ENG 366	Contemporary Writers	4 sh
A choice of three of the following courses:		12 sh
ENG 214	Creative Writing: Poetry (Winter Term)	
ENG 314	Advanced Creative Writing, Screenplay	
ENG 315	Advanced Nonfiction Writing	
ENG 316	Advanced Creative Writing: Poetry	
ENG 317	Advanced Creative Writing: Fiction	
JCM 344	Screenwriting	
THE 330	Playwriting	
TOTAL		20 sh

Professional Writing Minor: See Professional Writing Studies

Multimedia Authoring Minor: See Multimedia Authoring

ENG 100. INTRODUCTION TO COLLEGE WRITING 4 sh

This is a writing workshop focusing on invention, organization, revision and editing skills. A grade of "C-" or better required for admission to ENG 110. Elective credit only. Offered fall.

124 ENG 106. ANALYTICAL READING 4 sh

Analytical reading is a course designed to help students understand, analyze and retain college level reading material. Elective credit only. Offered fall.

ENG 110. COLLEGE WRITING 4 sh

In this first-year course emphasizing invention, peer response, revising and editing, students learn to develop and make assertions, support them with appropriate evidence and present them in public form. Students also learn that the style and content of their writing will affect their success in influencing audiences. A grade of "C-" or better required for graduation. Offered fall and spring.

ENG 204. SURVEY OF PROFESSIONAL WRITING AND RHETORIC 4 sh

This course is a survey of theories and practices of writing from ancient Greece to the contemporary workplace. The course prepares students to see writing broadly as a culturally situated form of social action and production. Prerequisite: ENG 110.

ENG 205. GRAMMAR 4 sh

This study of the English language includes the evolution of prescriptive and descriptive grammars, terminology, parts of speech and function, grammatical structures and correct usage of standard written English. Prerequisite: ENG 110.

ENG 210. WRITING WORKSHOP 4 sh

This course builds upon the objectives for English 110 (College Writing) and offers students the opportunity to devise their own writing projects. It provides a workshop setting for intensive practice in writing, response and revision, along with reading in the theory of writing and rhetoric. Prerequisite: ENG 110.

ENG 211. WRITING FOR THE PROFESSIONS**4 sh**

This course introduces students to the history, technology and practice of the various forms of professional writing and is designed for students from many different disciplines. The course focuses on transactional writing or discourse that aims to get things done: to inform, persuade or instruct people. This is the writing that goes on in the world of work. Prerequisite: ENG 110.

ENG 212. WRITING, RHETORIC AND INTERFACE DESIGN**4 sh**

This course provides students with the theoretical and practical background necessary to approach the design of interfaces from a user's perspective and as a reflective practice. The students will also develop a rhetorical foundation for analyzing and producing primarily screen-based interfaces. The course emphasizes a process-orientated approach to design wherein design includes rigorous and disciplined attention to planning, research, revision and production. Moreover, students learn to focus on design from a rhetorical perspective, one that balances writers' goals, users'/readers' needs and text design possibilities. Prerequisite: ENG 110.

ENG 213. CREATIVE WRITING**4 sh**

For this workshop, students interested in writing poems and short stories may be assigned additional texts for discussion of technique or form. Prerequisite: ENG 110. Offered fall and spring.

ENG 214. CREATIVE WRITING: POETRY READING/WRITING**4 sh**

Along with readings of 20th century British, Irish and American poetry, students from all levels spend equal amounts of time discussing their own and others' poems. Study also includes reading quizzes, writing journals and poetry assignments. Prerequisite: ENG 110.

ENG 221. BRITISH LITERATURE I**4 sh**

This study of British literature in its social and cultural contexts emphasizes the close reading of texts from the Anglo-Saxon, Medieval and Renaissance periods through the Enlightenment. Prerequisite: ENG 110. Offered fall and spring.

ENG 222. BRITISH LITERATURE II**4 sh**

This study of British literature in its social and cultural contexts — from the Romantic, Victorian and Modernist periods through the present — emphasizes the close reading of texts representing the diversity of modern British literary expression. Prerequisite: ENG 110. Offered fall and spring.

ENG 223. AMERICAN LITERATURE I**4 sh**

This study of American literature in its social and cultural contexts — from Colonial and Revolutionary periods through the Romantic period — emphasizes the close reading of texts to examine American literary culture from its origins to the post-Civil War era. Prerequisite: ENG 110. Offered fall and spring.

ENG 224. AMERICAN LITERATURE II**4 sh**

This study of American literature in its social and cultural contexts — from the post-Civil War era, Progressive and Modernist periods up to the present — involves close reading of selected texts to stress the expansion of the American literary canon. Prerequisite: ENG 110. Offered fall and spring.

ENG 231. INTRODUCTION TO WORLD LITERATURE**4 sh**

This course provides an introduction to the study of selected works from European, Asian, African and Latin American literatures (in English translation) with emphasis on literary traditions and genres. Prerequisite: ENG 110. Offered spring of alternate years.

ENG 238. AFRICAN-AMERICAN LITERATURE BEFORE 1945**4 sh**

This course traces the development of the themes of protest, accommodation and escapism found in the fiction, poetry and drama of African-American writers before 1945. Prerequisite: ENG 110. Offered fall of alternate years.

ENG 239. AFRICAN-AMERICAN LITERATURE SINCE 1945

4 sh

An examination of works by major African-American writers since 1945 focuses on making connections between writers. Prerequisite: ENG 110. Offered spring of alternate years.

ENG 250. INTERPRETATIONS OF LITERATURE

4 sh

Interpretations of Literature employs different critical approaches to interpret and evaluate poetry, drama and fiction from a variety of cultures. Prerequisite: ENG 110. Offered fall and spring.

ENG 251. ENGLISH STUDIES IN BRITAIN

4 sh

A study-tour based in London emphasizes the theatre and places of literary and cultural importance. The course includes excursions to such places as Stratford-upon-Avon, Stonehenge and Canterbury. This course satisfies the General Studies literature requirement. Winter term only.

ENG 255. TOPICS IN LITERATURE

4 sh

Courses taught under this number will introduce students to the study of several different genres of literature. The reading selections will explore a theme such as Urban Life, Family, the Holocaust, Spiritual Life, Cultures in Contact, Business and Literature. The course is especially recommended for students who are not English majors. It fulfills the General Studies literature requirement. Offered fall and spring. Prerequisite: ENG 110.

ENG 266. LITERATURE OF TERROR AND THE SUPERNATURAL

4 sh

A study of the elements of terror and the supernatural in selected literary works that are designed to inspire fear. Representative authors include Samuel Taylor Coleridge, Edgar Allan Poe, Henry James and Stephen King. Extensive use of videos. Offered in winter. Prerequisite: ENG 110.

ENG 282. PRACTICUM IN ENGLISH

1-3 sh

This course provides opportunities for students to observe and record different types of writing produced in an office or business. Prerequisites: ENG 110, permission of instructor and advance arrangement. No credit toward General Studies requirements.

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Language Studies

This selection of courses centers on studies in the structure and historical development of the English language and in the theory of rhetoric and composition.

ENG 302. HISTORY OF THE ENGLISH LANGUAGE

4 sh

This study traces the historical development of the English language from its Indo-European origins to the present. Prerequisite: ENG 110. Offered fall.

ENG 303. LINGUISTICS

4 sh

Linguistics is the study of the systems of language, including the phonology, morphology, semantics and varieties (social and regional) of the English language. Prerequisite: ENG 110.

ENG 304. TOPICS IN PROFESSIONAL WRITING AND RHETORIC

4 sh

This course will be grounded in argumentative discourse and communication principles based on ideas and teaching from contemporary and ancient rhetorical theorists. While the topical focus of the course will vary, the emphasis, as in any writing course, would include a structured process of planning; the creation of document design including the matter of language in conjunction with images and graphics. Prerequisite: ENG 110.

ENG 305. AMERICAN ENGLISH

4 sh

This course examines the development of American English from the 16th-century influences of Jamestown and Massachusetts settlers to Creoles developing along the

Mexican border and in Florida. Study includes regional and social varieties of English, phonetics and literature that employs dialects. Prerequisite: ENG 110.

Advanced Writing

Courses in this group are specifically designed to provide practice in different kinds of writing beyond the introductory level.

ENG 311. DOCUMENT RESEARCH, MANAGEMENT AND PRODUCTION

4 sh

This course introduces students to research methods, project management principles and document production processes needed for effective practice in professional writing contexts. (It emphasizes a rhetorical approach to professional writing i.e., writing is understood as a human, social action or a way of acting with and toward others through written symbols.) Through hands-on course projects, students gain confidence in their ability to research, manage and produce documents in a variety of contexts. Students will acquire and practice a rhetorical stance toward professional writing. Prerequisite: ENG 110.

ENG 314. ADVANCED CREATIVE WRITING: SCREENPLAY

4 sh

This course focuses on the format, strategies and techniques for constructing effective, saleable, feature-length screenplays. While devoting a large share of time to traditional concerns such as plot formulation, character development and dialog, students also learn how to write letters of query, script treatments and summaries with a logline. To facilitate their emergence as effective screenwriters, students develop critical appreciation by reading and evaluating published scripts and each other's work; students also analyze significant movies. Prerequisites: ENG 110 and either ENG 213 or instructor's permission.

ENG 315. ADVANCED NONFICTION WRITING

4 sh

In this writing workshop, students develop a specific aspect of writing ability (e.g., voice, stylistics) or practice a particular type of writing (e.g., essay, biography, travel writing). Focus changes each semester. Prerequisite: ENG 110.

ENG 316. ADVANCED CREATIVE WRITING: POETRY

4 sh

This advanced workshop, centered around students' poems, also includes study of 20th century poetry (occasionally earlier) to learn poetic techniques and to recognize the many possibilities of poetic forms, subjects and voices. Prerequisite: ENG 110 and ENG 213 or permission of instructor. Offered fall.

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ENG 317. ADVANCED CREATIVE WRITING: FICTION

4 sh

This advanced workshop, centered around students' stories, also includes study of 20th century fiction (occasionally earlier) to learn techniques and to recognize possibilities for point of view, characterization, structure and diction. Prerequisite: ENG 110 and ENG 213 or permission of instructor.

ENG 318. SCIENTIFIC AND TECHNICAL COMMUNICATION

4 sh

This course examines the complex nature and practice of scientific and technical discourse. Although open to anyone with an interest in this topic, the course is designed especially for students majoring in the sciences who want to improve the professional writing skills necessary for successful careers in their chosen fields and students majoring in writing or communication who wish to pursue careers as technical and scientific communicators. Prerequisite: ENG 110.

ENG 319. WRITING CENTER WORKSHOP

4 sh

The Writing Center Workshop enhances students' writing ability while they learn to tutor writing. Students are required to tutor four hours each week in Elon's Writing Center. Strong writing abilities and interpersonal skills recommended. Prerequisite: ENG 110. Offered fall and spring.

Historical Studies

Courses in this group explore literature in historical, interdisciplinary and cross-cultural contexts.

ENG 321. CLASSICAL LITERATURE

4 sh

This study of ancient Greek and Roman literature and culture includes authors such as Homer, Plato, Sophocles, Ovid and Virgil, with readings from mythology, the great epics of the Trojan War, drama, philosophy and lyric poetry in modern translations.

Prerequisite: ENG 110. Offered fall of alternate years.

ENG 322. MEDIEVAL LITERATURE

4 sh

This study of literature and culture of the European Middle Ages includes authors such as Dante, Chretien de Troyes, Chaucer and Malory, with readings from modern translations of epics such as *Beowulf* or *The Song of Roland*, poetry about love or religious experience such as *The Divine Comedy* or narratives about adventure and chivalry, such as legends of King Arthur. Prerequisite: ENG 110.

ENG 323. RENAISSANCE LITERATURE

4 sh

This study of British and Continental literature and culture of the 16th and early 17th centuries includes authors such as Sidney, Marlowe, Montaigne, Shakespeare and Cervantes. Readings in Renaissance English from Elizabethan and Jacobean drama, sonnet sequences, lyric and narrative poems, and precursors of the modern novel, such as *Don Quixote* are covered. Prerequisite: ENG 110.

ENG 324. ENLIGHTENMENT

4 sh

This study focuses on the great works of British, Continental and American literature during an age of reason and sensibility marked by industrial, scientific and political revolutions. Prerequisite: ENG 110.

ENG 325. ROMANTICISM

4 sh

Romanticism provides an interdisciplinary study of British, American and Continental Romantic literature in the context of art, music (especially opera), cultural life and intellectual history. Prerequisite: ENG 110.

ENG 326. REALISM AND THE LATER 19TH CENTURY

4 sh

This study involves an interdisciplinary look at British, American and Continental literary movements (realism, naturalism, symbolism and aestheticism), including reading selected masterworks in the context of the intellectual and cultural life of the period. Prerequisite: ENG 110.

ENG 327. 17TH CENTURY LITERATURE

4 sh

This study of "The Century of Genius" includes works by British and Continental authors who ushered in the modern world. Prerequisite: ENG 110.

ENG 328. MODERNISM

4 sh

This interdisciplinary study of modernism as a dominant intellectual movement of the 20th century explores topics such as alienation, the artist's role, the primitive, consciousness and the unconscious, human rights and the postmodern. The literature is supplemented by art, music and philosophical texts. Prerequisite: ENG 110.

Cultural Studies

Courses in this group emphasize the study of literature in its cultural context, often from the perspective of a particular social group. Regional, gender, ethnic and class issues are all possible concentrations.

ENG 330. APPALACHIAN LITERATURE

4 sh

A survey of 19th and 20th century Appalachian poetry, short and long fiction, drama, music, film and culture. Prerequisite: ENG 110.

ENG 331. ADVANCED WORLD LITERATURE

4 sh

Advanced study of selected works of European, Asian, African and Latin American literatures (in English translation), from historical and cultural critical perspectives. Offered fall of alternate years. Prerequisite: ENG 110.

ENG 332. LITERATURE OF THE SOUTH

4 sh

Emphasis is given to major 20th century writers in this study of Southern literature, its background and themes. Prerequisite: ENG 110.

ENG 333. WOMEN IN LITERATURE: FEMINIST APPROACHES

4 sh

Women in Literature studies modern and traditional works of literature interpreted or reinterpreted from the perspective of feminist literary theories. Prerequisite: ENG 110.

ENG 334. NATIVE AMERICAN LITERATURE

4 sh

In an introduction to American Indian literature from the 18th century through the present, study includes special emphasis on contemporary writers of the Native American Renaissance. Prerequisite: ENG 110.

ENG 335. LATIN AMERICAN LITERATURE AND CULTURE

4 sh

This course looks at recent Latin American literature mainly through the lens of history and politics, but economics, geography, music, art and religion will also be taken into consideration. Course content will be in the form of poems, short and long fiction, non-fiction and film. Taught in English translation. Prerequisite: ENG 110.

ENG 336. HEMINGWAY AND THE EXPATRIATES

4 sh

A study of the life and work of expatriates in Paris immediately after World War I. Particular emphasis is given to Ernest Hemingway. Prerequisite: ENG 110.

ENG 337. ASIAN LITERATURE OF SOCIAL CHANGE

4 sh

This course explores revolutionary democratic movements outside of the American tradition by studying 20th century Asian poetry, fiction and films, primarily of China and India. Offered irregularly. Prerequisite: ENG 110.

ENG 338. THE AFRICAN EXPERIENCE IN LITERATURE

4 sh

This course studies the literature of a variety of African countries in relation to Africa's cultural traditions and its transition to modernity. Genres may include fiction, plays, poems, autobiographies and oral literature. Offered spring of alternate years. Prerequisite: ENG 110.

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ENG 339. AMERICAN ENVIRONMENTAL WRITERS

4 sh

A study of the major American environmental and natural history writers with close attention to issues of environmental ethics, aesthetics of nature and cultural attitudes towards the environment. The authors studied are Thoreau, Muir, Leopold, Carson, Abbey, Lopez, Wilson and Snyder. The course will emphasize the growing ethical and aesthetic appreciation of nature in American culture and how the insights of environmental writers can be used to address the environmental crisis. Offered spring of alternate years. Prerequisite: ENG 110.

Author Studies

Courses in this group focus on the works of individual authors who have captured and continue to hold the imaginations of readers. Typical offerings include Hawthorne, Melville, Poe, Hardy, Dickinson, Cather and those listed below.

ENG 341. CHAUCER

4 sh

A close study of Chaucer's major works in the context of their medieval, intellectual and cultural background includes the greater portion of *The Canterbury Tales*, the dream visions and *Troilus and Cressida*. Prerequisite: ENG 110.

ENG 342. SHAKESPEARE: THE TRAGEDIES

4 sh

This study of Shakespeare's tragedies examines representative works within their intellectual, cultural and theatrical contexts. Prerequisite: ENG 110.

ENG 343. SHAKESPEARE: THE COMEDIES

4 sh

This study of Shakespeare's comedies examines representative works within their intellectual, cultural and theatrical contexts. Prerequisite: ENG 110.

ENG 344. ROBERT FROST

4 sh

This study of Frost's early development as a lyric poet focuses on the close reading of his poetry, criticism and masques in the context of New England regionalism and the emergence of Modernism in American letters. Prerequisite: ENG 110.

ENG 345. JANE AUSTEN

4 sh

Background study of 18th- and 19th-century England and the development of the novel are part of this examination of the life and writings of Austen. Prerequisite: ENG 110.

ENG 348. MARK TWAIN

4 sh

This course studies the life and work of Mark Twain as an American humorist, realist and social critic. Readings include *Roughing It*, *Innocents Abroad*, *The Gilded Age*, *Life on the Mississippi*, *Huckleberry Finn* and *Pudd'nhead Wilson*, as well as selected shorter works and later writings. Prerequisite: ENG 110.

Genre Courses

These courses offer studies in specific types of literature such as poetry, drama, the novel, the essay and the short story. Courses in genre include "kinds" of literature which cut across the more traditional genre labels.

ENG 351. THE NOVEL

4 sh

Focus and content vary in this course, which examines representative novels from different countries and ages. Typical emphases include the American, the British, the picaresque, the political novels and the Bildungsroman. This course sometimes carries an emphasis on gender. Prerequisite: ENG 110.

ENG 352. DRAMA

4 sh

In a study of western drama from ancient Greece to the present, representative texts are examined in their historical and cultural contexts. Prerequisite: ENG 110.

ENG 353. POETRY

4 sh

Examination of representative poetry from different cultures and ages includes at least one epic, shorter narratives, dramatic and lyric poetry. Each student selects one culture, historical period or type of poetry as the focus of an individual research project. Prerequisite: ENG 110.

ENG 354. THE SHORT STORY

4 sh

Study of the short story as a literary form spans from its origins and development by Poe, Chekhov and others to experimental contemporary writers. Typically, five or six collections by writers from a variety of cultures are read, with some attention to the problem of film adaptation. Prerequisite: ENG 110.

ENG 355. LAUGHTER AND COMEDY

4 sh

Students study the psychology of laughter and the philosophy of comedy. Prerequisite: ENG 110.

ENG 356. THE NOVEL: BRITISH WOMEN WRITERS

4 sh

This study of novels by past and present British women writers, using feminist literary theories, also covers the development of the novel as a form and the expression of women's experience in the 18th, 19th and 20th centuries. Prerequisite: ENG 110.

ENG 357. THE LONDON THEATRE

4 sh

Students see productions of Shakespearean and other classic dramas and experience more modern and contemporary plays — both fringe and mainstream — in this study

of drama in the London Theatre. Prerequisite: ENG 110. Study Abroad students only.

ENG 358. MODERN POETRY: BRITISH AND AMERICAN

4 sh

This study of British and American poetry from the first half of the 20th century includes close readings of Yeats, Auden, Frost, Stevens, Williams, Moore, H. D., Eliot and Pound. The course also addresses cultural context and radical changes in poetic forms during this period. Each student completes an extensive project (research, original interpretation, written and oral presentation) on a modern poet not studied in class. Prerequisite: ENG 110.

ENG 359. AFRICAN-AMERICAN NOVELS

4 sh

This study of novels by such writers as Baldwin, Ellison, Hurston, Walker, Wright and Morrison gives attention to gender, place, alienation and changes in forms of protest. This course satisfies the cultural studies requirement for English majors. Offered fall of alternating years. Prerequisite: ENG 110.

Special Topics

Special Topics courses involve studies of various topics, some of which fall outside the boundaries of traditional literary study.

ENG 361. GENDER ISSUES IN CINEMA

4 sh

This course explores how well film reveals gender differences between men and women. Time is spent studying gender stereotyping, the psychological accuracy of film's representations of gender and gendered behavior of film directors. This course does not fulfill the General Studies literature requirements. Prerequisite: ENG 110.

ENG 362. FILM CRITICISM

4 sh

This course emphasizes how to interpret cinema critically, using films that illustrate cultural differences, periods and types of filmmaking and achievements in techniques and ideas of the greatest directors. This course does not fulfill the General Studies literature requirement. Prerequisite: ENG 110.

ENG 365. LITERATURE AND THEOLOGY

4 sh

This course provides an interdisciplinary study focusing on relationships between literary and theological disciplines with special attention to literature illustrating various approaches to religious questions. Prerequisite: ENG 110. (ENG 365 cross-listed with REL 365.)

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ENG 366. CONTEMPORARY WRITERS

4 sh

This course explores the contemporary movements in fiction, poetry and nonfiction with special attention to style and technique. This course will include significant reading as well as the production of original work. Assignments will be both creative and academic. Required for Creative Writing concentration majors, this course can also meet the General Studies literature requirement and the core literature requirement for English majors. Prerequisites: ENG 110; ENG 213, or permission of instructor.

ENG 367. THE ARTHURIAN LEGEND

4 sh

Course study traces the development of stories of King Arthur and the Round Table from their appearance in the early Middle Ages through the present. Genres include chronicle, poetry, fiction and cinema. Prerequisite: ENG 110.

ENG 381. WRITING INTERNSHIP

1-4 sh

Students have an opportunity to apply their writing skills in a business office. By permission of instructor and chair. No credit toward General Studies requirements.

ENG 382. INTERNSHIP IN TEACHING LITERATURE

4 sh

The student will attend a 200-level English department literature course not previously taken and will work with the professor teaching the course to develop journal prompts and quiz or discussion questions, as well as leading some class and small-group discus-

sions. The student will also meet with the professor once a week to discuss strategies for planning the course, selection of texts, the structure of daily class sessions and the pedagogical techniques used in the course. English majors only. By permission of instructor and chair.

ENG 398. CHILDREN'S LITERATURE

4 sh

This course examines the fields of children's and folk literature to discover material which satisfies educational requirements for children in elementary grades. No credit toward English major/minor. Prerequisites: EDU 211, ENG 110.

ENG 399. YOUNG ADULT LITERATURE

4 sh

In this study of contemporary literature for young adult readers, students read texts appropriate to the adolescent, examine common themes and apply critical approaches suitable for middle grades and secondary classrooms. Authors may include Judy Blume, Robert Cormier, S. E. Hinton, Madeleine L'Engle, Gary Paulsen, Katherine Patterson and Cynthia Voigt. Credit toward English teacher licensure. No credit toward English major/minor. Prerequisites: EDU 211, ENG 110.

ENG 491. INDEPENDENT STUDY

1-4 sh

Senior Seminar, Research

ENG 492-498. SENIOR SEMINAR

4 sh

This capstone experience for majors offers students the opportunity to engage in independent research, original writing, and coordination of previous work on theory, depending on their major concentrations. Typical seminars will focus on Literature, Creative Writing, or Professional Writing and Rhetoric. Majors in the Teacher Licensure concentration will usually take the Literature seminar, but may substitute the Creative Writing seminar if they have had significant coursework in Creative Writing. Professional Writing and Rhetoric majors will participate in a mini-internship, out of which they compose original professional documents. All writing concentration students will have portfolios evaluated by outside readers. Dual concentration majors take both applicable seminars. Prerequisite: Majors only or permission of instructor. Offered fall and spring.

ENG 499. RESEARCH IN ENGLISH

4 sh

This course offers students the opportunity to create an undergraduate original research project guided by a faculty mentor. A research proposal form completed by the student and faculty mentor is required for registration. Prerequisite: permission of instructor.

Environmental Studies

Coordinator: Associate Professor MacFall

Professors: Angyal, Gooch, Weston

Associate Professors: D'Amato, Glaesel, Kingston, Redington, Sienerth

Assistant Professors: Haenel, Peters, Spray, Strickland, Touchette, Xiao

Elon University offers both an A.B. and B.S. degree in Environmental Studies, blending scientific foundations with an appreciation of society's needs and concerns. As we face the future, it becomes increasingly clear that environmental challenges are not isolated. The quality of our water, the integrity of our coasts, the health of our forests have shaped the world in which we live. The Earth's capacity to provide is not without limits and is being challenged by demands of our human population. Though the challenge is global, solutions must be found through local, national and international actions grounded in a renewed appreciation for the Earth. Elon University guides students to meet the challenges of today and to become creative and visionary stewards who will lead us to the Earth of tomorrow.

In Elon's program, students take a balanced, interdisciplinary core of classes grounded in ecological understanding. The strength of the program is from the emphasis placed on considering the environment from many perspectives – for example, discussing water resources in science, social science and humanities classes. Students working toward the B.S. degree choose a concentration either in environmental science or society and the environment. The A.B. degree is designed to complement interests in traditional disciplines through minors or a second major, building an environmental focus. The program culminates in a capstone senior seminar, in which students develop a community-based project. In recent seminars, students designed a river corridor protection plan. Students are also required to complete an internship and are encouraged to participate in independent research. Students are also eligible to apply for the Elon College Fellows Program.

Elon University Center for Environmental Studies

A center has been established with the mission of providing a regional focus for activities and interests which meet the environmental needs of the community in the Piedmont Region of North Carolina. The Center's activities have focused on developing community outreach projects between Elon students and faculty on conservation projects. Recent project partners have included the Piedmont Land Conservancy, the Haw River Lands and Trails Association, the Natural Resource Conservation Service, the National Park Service, local governments and industries. These partnerships have also provided research and internship opportunities, providing real world opportunities to students and strengthening their personal and professional development.

A Bachelor of Arts degree with a major in Environmental Studies requires the following:

ENS 111	Introduction to Environmental Science	3 sh	
ENS 113	Introduction to Environmental Science Lab	1 sh	
ECO 201	Principles of Economics	4 sh	
POL 224	Environmental Policy and Law	4 sh	
ENG 339	American Environmental Writers	4 sh	or
PHL/REL 348	Environmental Ethics		
ENS 381	Internship in Environmental Studies	1-4 sh	
ENS 461	Senior Seminar in Environmental Studies	4 sh	
Choose one course from the following:		4 sh	

ENG 212	Writing Rhetoric and Interface Design	
ENG 318	Scientific and Technical Communication	
ENS/GEO 350	Introduction to GIS	
GEO 356	Remote Sensing and GEO 355 Introduction to Cartography	
JCM 218	Media Writing	
JCM 211	Professional Speaking and Rhetoric	

Choose two courses from the following: (Must be from two departments) 8 sh

ECO 335	Environmental Economics	
ENS 310	Environment Issues in Southeast Asia	
ENG 339	American Environmental Writers	
PHL/REL 348	Environmental Ethics	
POL 344	International Environmental Change	
GEO 345	Global Environmental Change	
GEO 310	Development and Environment in Latin America, Africa and South Asia	

GEO 342	Gender and Environment in South America	
Choose two courses from the following:		8 sh
BIO 112/114	Introduction to Population Biology and Lab	
BIO/ENS 215	Organismal Biology and Field Techniques	
BIO 355	Field Biology (Belize or Galapagos, may only choose one)	
CHM 101/102	Basic Chemistry and Lab	
PHY 110	Energy and the Environment	
TOTAL		41-44 sh

A Bachelor of Science degree with a major in Environmental Studies requires the following:

PHY 110	Energy and the Environment	4 sh
ENS 111	Introduction to Environmental Science	3 sh
ENS 113	Introduction to Environmental Science Lab	1 sh
BIO 112	Introduction to Population Biology	3 sh
BIO 114	Population Biology Lab	1 sh
ENS 215	Organismal Biology and Field Techniques	4 sh
BIO 452	General Ecology	4 sh
CHM 111	General Chemistry I	3 sh
CHM 112	General Chemistry II	3 sh
CHM 113	General Chemistry I Lab	1 sh
CHM 114	General Chemistry II Lab	1 sh
ECO 201	Principles of Economics	4 sh
POL 224	Environmental Policy and Law	4 sh
ENS 381	Internship	2 sh
ENS 461	Seminar: Environmental Impact Assessment and Policy Development	4 sh
MTH 112	General Statistics	4 sh
PHL/REL 348	Environmental Ethics	4 sh
ENG 339	American Environmental Writers	or
TOTAL		50 sh

Select one of the following two concentrations:

Science Concentration

CHM 211	Organic Chemistry I	3 sh
CHM 213	Organic Chemistry I Lab	1 sh
CHM 305	Environmental Chemistry	4 sh
Choose two courses from the following:		8 sh
PHY 103	Basic Concepts in Geology	
BIO 422	Aquatic Biology	
CHM 311	Quantitative Analysis	
BIO 335	Field Biology (Study Abroad)	
BIO 344	Evolution	
TOTAL		16 sh

Society and Environment Concentration

ECO 335	Economics of Environmental Issues	4 sh
Choose three courses from the following:		12 sh

POL 328	Public Policy
POL 344	International Environmental Policy
POL 431	Policy Analysis and Program Evaluation
ENS 310	Environmental Issues of Southeast Asia
GEO 310	Development and the Environment in Latin America, Africa and South Asia
GEO 320	Geography of Africa
ENS/GEO 350	Introduction to Geographic Information Systems
ENG 318	Scientific and Technical Communications

TOTAL	16 sh
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A Bachelor of Science degree in Environmental Studies/Environmental Engineering: See requirements listed in Engineering.

ENS 111. INTRODUCTION TO ENVIRONMENTAL SCIENCE 3 sh

This course explores the fundamental principles of the biological and physical sciences behind natural ecosystems. The central focus is the study of ecosystem function, human impact and techniques of environmental assessments. Students consider different world views and the development of solutions. Satisfies the laboratory science requirement for General Studies. Corequisite: ENS 113. Offered fall and spring.

ENS 113. INTRODUCTION TO ENVIRONMENTAL SCIENCE LAB 1 sh

Students will be introduced to techniques for environmental assessment. The focus is on field research as applied to environmental management. One 3-hour laboratory per week. Corequisite: ENS 111. Offered fall and spring.

ENS 215. ORGANISMAL BIOLOGY AND FIELD TECHNIQUES 4 sh

This course examines the basic concepts of biological form and function and the fundamentals of organismal systematics with a focus on herbaceous and woody plants, invertebrates and microbial ecology. Students investigate the natural history of local species and their role in community dynamics. Laboratory experiences emphasize keying and identification, field methodologies, sampling techniques and population estimation procedures for terrestrial and aquatic ecosystems. Satisfies the General Studies lab science requirement. Prerequisites: ENS /BIO 111/113, or BIO 112/114. (ENS 215 is cross-listed with BIO 215.) Offered spring.

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ENS 310. ENVIRONMENTAL ISSUES IN SOUTHEAST ASIA 4 sh

This course focuses on the environmental issues facing the island nations and the mainland countries of Southeast Asia. The major environmental problems in this region of the world include deforestation, soil erosion, habitat destruction, habitat fragmentation, water pollution from mineral extraction and industry, unsustainable harvesting practices and rising rates of disease. These issues will be examined in the context of climate, topography, vegetation, societal evolution and human history. Emphasis will be placed on the demographic, cultural, political, religious, economic and ecological reasons for the current state of the environment of Southeast Asia. Practical solutions to reduce environmental degradation and promote sustainable development will be examined. This course cannot be used to satisfy a science requirement. Offered alternate years.

ENS 350. INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS 4 sh

(Cross-listed with GEO 350. See GEO 350 for description.) This course can be applied toward the Studies in Arts and Sciences requirement for Society. It cannot be applied toward the Science requirement. Offered fall.

ENS 381. INTERNSHIP IN ENVIRONMENTAL STUDIES**2-4 sh**

An internship provides work experience at an advanced level in an environmental science field. Prerequisite: junior/senior standing as an ENS major and permission of the Program Coordinator. Offered fall, winter, spring or summer.

ENS 461. SEMINAR: ENVIRONMENTAL IMPACT ASSESSMENT AND POLICY DEVELOPMENT**4 sh**

Students cooperate in a semester-long project, conducting a complete field investigation of a land/water development proposal. The course provides an opportunity for the students to apply their knowledge, analytical and problem-solving skills and ethical perspectives in the creation of a report that could be used by a municipal or regional planning organization. Prerequisite: senior standing as an ENS major. Offered fall.

Exercise/Sport Science

Chair, Department of Health and Human Performance: Professor J.P. Brown

Professors: Beedle, Calhoun

Associate Professors: Davis, Miller

Assistant Professors: Baker, Hall, Smith

Instructor: Allen, Stevens

The exercise/sport science major program located within the Health and Human Performance Department prepares graduates for careers in cardiac rehabilitation, corporate wellness, personal training and related professions. Students who wish to pursue graduate degrees may apply to physical therapy, exercise physiology and other areas of study after satisfying the appropriate prerequisites. In addition to the required core courses, students choose 24 semester hours from a selection of exercise/sport science courses.

A major in Exercise/Sport Science requires the following:

ESS	101	Introduction to Exercise/Sport Science	2 sh
ESS	281	Practicum	2 sh
ESS	422	Physiology of Exercise	4 sh
ESS	424	Exercise Programming	4 sh
ESS	432	Research Methods	4 sh
PED	321	Biomechanics	4 sh
HED	220	First Aid	1 sh
CHM	111*	General Chemistry I	3 sh
CHM	113*	General Chemistry I Lab	1 sh
BIO	161*	Human Anatomy	4 sh
BIO	162*	Human Physiology	4 sh

TOTAL CORE REQUIREMENT HOURS**33 sh**

*Should be completed by freshman or sophomore year.

Twenty-four additional hours chosen for the following courses: **24 sh**

HED	324	Nutrition
HED	421	Chronic and Acute Diseases
PED	305	Legal Aspects (2 sh)
PED	310	Motor Learning Theory

PED	410	Organization and Administration
PED	411	Measurement and Evaluation
ATP	112	Athletic Training I
ESS	263	Structural and Functional Kinesiology
ATP	311	Introduction to Pharmacology (2 sh)
ESS	315	Advanced Strength Training Conditioning
ESS	333	Exercise Psychology
ESS	440	Exercise Biochemistry (2 sh)
ESS	441	Cellular Physiology of Nerve and Muscle (2 sh)
ESS	442	Sport Psychology (2 sh)
ESS	443	Exercise Psychophysiology (2 sh)
ESS	482	Internship

TOTAL**57 sh**

A minor in Exercise/Sport Science requires the following courses:

ESS	422	Physiology of Exercise	4 sh
HED	324	Nutrition	4 sh
PED	321	Biomechanics	4 sh
BIO	161	Human Anatomy	4 sh
BIO	162	Human Physiology	4 sh

TOTAL**20 sh****ESS 101. INTRODUCTION TO EXERCISE/SPORT SCIENCE****2 sh**

This course is an overview of professions in the field of sports medicine. Career opportunities within sports medicine and allied health will be investigated. Objectives include describing various aspects of careers, determining requirements for advanced study and learning what the necessary coursework would be for applying to several professions of interest. Offered fall and spring.

137**ESS 263. STRUCTURAL AND FUNCTIONAL KINESIOLOGY****4 sh**

This course is designed to increase student knowledge and exposure to the structural and functional components of human anatomy including musculoskeletal origins, insertions, actions and innervations; the ability to identify landmarks, surface markings and palpations on a live model; to describe functional movements in various sport activities and then classify and identify which muscles work together to create the motions. Emphasis will be placed on normal walking and running gait, posture, throwing, kicking and jumping. Prerequisite: BIO 161. Offered as needed.

ESS 281. PRACTICUM IN EXERCISE/SPORT SCIENCE**2 sh**

The practicum introduces the student to professions in sports medicine and health-related fields. Students must choose three different agencies to work in with about 27 hours at each agency. Students must turn in typed reports including a brief discussion of the experience, reflections and a critique of the experience/agency. Students may also assist with patient/client care, and/or training and shadow their supervisor. Students must make arrangements with their professor the semester before taking the practicum. Prerequisites: ESS 101, majors only. Offered fall, winter, spring and summer.

ESS 315. ADVANCED STRENGTH TRAINING CONDITIONING**4 sh**

This course covers physical fitness testing and strength evaluation of the athlete, components of a physical conditioning program, use of commercial and free weight equipment, technique/skill demonstration, evaluation of and designing and implementing fitness/conditioning programs. The course is designed to assist students in preparation for

taking the NSCA-Strength and Conditioning Specialist (CSCS) or NSCA-Certified Personal Trainer (NSCA-CPT) as well as those students preparing for the NATA-BOC athletic training exam. The course also ensures a minimal competence among practitioners from a scientific, educational and methodological perspective. Prerequisite: junior/ senior status. Offered spring.

ESS 333. EXERCISE PSYCHOLOGY

4 sh

This course will examine applied and theoretical issues related to the psychology of physical activity. Theories of motivation and exercise behavior will be examined in relation to the increasing problems of exercise adherence and physical inactivity. Other topics that will be discussed include: the psychological benefits of exercise, personality and exercise, body image and the psychology of injury. Various techniques will be discussed in relation to motivating exercise behaviors and how to deal with special populations. This course does not fulfill requirements for a major or minor in psychology. Offered fall.

ESS 422. PHYSIOLOGY OF EXERCISE

4 sh

Students examine the immediate and long-term effects of exercise on the body, including the integration of various bodily systems as a result of exercise and the role of nutrition and exercise in weight management. Laboratory activities include aerobic capacity testing, blood lipid and metabolic profiles, determination of body composition and possibly adult fitness testing. This course requires a three-hour lab. Prerequisite: BIO 162. Offered fall and spring.

ESS 424. EXERCISE PROGRAMMING

4 sh

Students gain applied knowledge in order to evaluate, develop and supervise exercise programs for both healthy and special populations. Topics include basic terminology, risk identification, types of fitness tests, indications and contraindications to exercise, program administration and effective communication techniques. Prerequisite: ESS 422. Offered fall and spring.

ESS 432. RESEARCH METHODS

4 sh

Students become familiar with basic research terminology and concepts, including statistics, developing a research problem, developing the research proposal, using computer software and measurement concepts. A research paper is required. Prerequisites: senior standing; LSM 212 for LSM majors; ESS 422 for exercise/sport science majors; and ATP 329 for athletic training majors. Offered fall and spring.

ESS 440. EXERCISE BIOCHEMISTRY

2 sh

This course will examine the physiology that underlies the production of energy and formation of new tissues. This course will center on training-specific adaptations. Other topics explored will be: enzymes, nucleotides, bioenergetics, metabolism and protein synthesis. Various laboratory techniques will be discussed and tested. Prerequisites: BIO 162, ESS 422 or permission of the instructor. Offered fall even years.

ESS 441. CELLULAR PHYSIOLOGY OF NERVE AND MUSCLE

2 sh

This course will examine the physiological processes involved in neural conduction and muscle contraction. Training-specific adaptations will be central to this course of study. Other topics explored include composition of intracellular and extracellular fluids, membrane potential, generation of the action potential, experiments in excitable cell physiology, synaptic transmission, muscle contraction and cardiac muscle. Various laboratory techniques will be discussed and tested. Prerequisite: BIO 162 or permission of the instructor. Offered fall odd years.

ESS 442. SPORT PSYCHOLOGY

2 sh

This course will provide a broad overview of the sport psychology discipline. Major areas of interest will include the motivational theories of sport participation, the factors that influence athletic performance, psychological techniques that can be used to improve sport athletic performance and the social psychology of sport. This course will

discuss the theories and applications involved in sport psychology. This course does not fulfill requirements for a major or minor in psychology. Prerequisite: ESS 101 or PSY 111 or permission of instructor. Offered spring even years.

ESS 443. EXERCISE PSYCHOPHYSIOLOGY

2 sh

Typically when discussing the benefits of physical activity, the benefits are either classified as being physical or psychological. The objective of this course is to give the student an overview of research and theory that has incorporated a psychophysiological (and in some cases a psychobiological) approach, i.e., an approach which views the interaction between physiological states and psychological states as a reciprocal relationship. This course will focus on the psychophysiology of exercise (e.g., affect [anxiety, depression], sleep, pain, cognitive functioning). Prerequisite: PSY 111 or BIO 162 or permission of the instructor. Offered spring odd years.

ESS 482. INTERNSHIP IN EXERCISE/SPORT SCIENCE

4 sh

Upper-class exercise/sport science majors select a sports medicine or health-related agency for their internship, a capstone experience. Students serve 160 hours at the agency. Students turn in biweekly reports, including a brief discussion of the experience, reflections and a critique of the experience/agency. Students may engage in problem-solving assignments and perform research on some particular topic. Students may also assist with patient/client care and/or training and shadow their supervisor. A research paper is due near the end of the experience. Students should make arrangements with their professors the semester prior to taking the internship. Prerequisites: ESS 281; junior/senior majors; 2.0 GPA overall, 2.0 GPA in major. Offered fall, spring and summer.

ESS 491. INDEPENDENT STUDY

1-4 sh

ESS 499. RESEARCH IN EXERCISE/SPORT SCIENCE

1-4 sh

Independent research project supervised by faculty mentor.

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Finance (see ACCOUNTING AND FINANCE)

Fine Arts

Chair, Department of Art: Associate Professor Hassell

Associate Professors: Tucker, Wellford

Adjuncts: Gibson, Rhoades, Rosenblatt-Farrell

FNA 101. INTRODUCTION TO THEATRE

4 sh

Students explore the nature of theatre, how it is created and how it functions in society. Primary study covers the diversity of the art form, basic terminology and the event/audience relationship. Performance reaction papers, creative projects and lab hours are required. Offered fall or spring. (FNA 101 is cross-listed with THE 101.)

FNA 211. INTRODUCTION TO FINE ARTS

4 sh

This comparative study of the major artistic forms involves readings, exhibitions, cultural events, lectures and workshops with visiting artists through which students discover works of art, their uses, purposes and aesthetic values. Offered fall and spring.

FNA 251. FINE ARTS STUDIES IN ENGLAND

4 sh

This course is a study tour of London emphasizing theatres, concerts and places of cul-

tural importance. Winter only.

FNA 265. FINE ARTS STUDIES IN ITALY 4 sh

This course is a study tour of Italy exploring the music, art, architecture and theatre. Winter only.

FNA 313. BRITISH ART AND ARCHITECTURE 4 sh

Field trips to museums and historically relevant sites complement classroom study of the art and architecture of England from the Anglo-Saxon and Roman periods to the 19th century. Offered fall and spring.

FNA 369. FINE ARTS IN THE PUBLIC SCHOOLS 4 sh

Early childhood and elementary education majors become familiar with current approaches to teaching the arts, with emphasis placed on incorporating the arts into daily instruction. Prerequisites: junior standing, acceptance to the teacher education program and PSY 321. Materials fee: \$20.

Foreign Languages

Chair, Department of Foreign Languages: Associate Professor Van Bodegraven
Professor: Lunsford
Associate Professors: Ihrle, Romer
Assistant Professors: de Lama, Lanzoni, Sumiyoshi, Windham
Instructor: Morales

In the 21st century, students are faced with a global economy and a world shrinking due to advances in communication technology. This encounter makes the study of foreign languages more essential than ever.

The Department of Foreign Languages offers courses in eight languages and programs leading to the Bachelor of Arts degree with a major in French or Spanish. A student majoring in French or Spanish may also choose to complete the program leading to teacher licensure.

In the French and Spanish programs, the course offerings are balanced between literary, cultural and linguistic study. Emphasis is placed on practical use of the language, and classroom learning is enhanced by video and computer technology as well as study abroad opportunities.

A major in French requires the following courses:

FRE 321	Conversation	4 sh
FRE 322	Written and Oral Expression in French	4 sh
FRE 331	Introduction to French Literature I	4 sh
FRE 332	Introduction to French Literature II	4 sh
FRE 341	Francophone Literature	4 sh
FRE 361	French Civilization	4 sh
FRE 362	Francophone Cultures Outside France	4 sh
FRE 401	French Linguistics	4 sh
Two additional electives above the 222 level		8 sh
TOTAL		40 sh

French majors are required to study abroad for at least one semester in a university-

approved program in a country where French is officially spoken. Credits earned in such a program may substitute for requirements for this major.

A maximum of 4 semester hours in internship credit can apply to the French major.

A minor in French requires 20 hours (24 hours if the student begins with FRE 121), eight of which must be above the 222 level. A winter term abroad is encouraged.

A major in Spanish requires the following courses:

Language Courses:

Choose at least two of the following: 8 sh

- SPN 421 Advanced Spanish Grammar I
- SPN 422 Advanced Spanish Grammar II
- SPN 451 Spanish Phonetics
- SPN 461 Translation

Conversation/Composition Courses:

Choose at least one of the following: 4 sh

- SPN 321 Conversation
- SPN 322 Written and Oral Expression in Spanish
- SPN 371 Special Topics

Culture Courses:

Choose at least two of the following: 8 sh

- SPN 361 Spanish Civilization
- SPN 362 Latin American Civilization
- SPN 363 Latinos in the U.S.
- SPN 372 Special Topics: must be cultural

Literature Courses:

Choose at least two of the following including SPN 320: 8 sh

- SPN 320 Introduction to Literary Analysis (required)
- SPN 331 Spanish Literature I
- SPN 332 Spanish Literature II
- SPN 341 Latin American Literature I
- SPN 342 Latin American Literature II
- SPN 375-379 Special Topics: must be literary
- SPN 475 Special Topics

Capstone:

- SPN 465 Colloquium in Hispanic Studies 4 sh
(to graduate, a "C" is required in this course)

Elective Courses:

8 sh

A 40-hour major may be completed by taking any Spanish courses above the 222 level, chosen from the categories above or taken during study abroad programs in Spain or Latin America.

Note: Students pursuing licensure to teach Spanish are strongly encouraged to take SPN 421 Advanced Grammar I, SPN 422, Advanced Grammar II and SPN 451 Phonetics.

Spanish majors are required to study abroad for at least one semester in a university-approved program in a country where Spanish is officially spoken. Credits earned in such a program may substitute for requirements for the major.

A maximum of 4 semester hours in internship credit can apply to the Spanish major.

A minor in Spanish requires 20 hours (24 hours if the student begins with SPN 120 or 121), eight of which must be above the 222 level. A winter term abroad is encouraged.

A major in French or Spanish with Teacher Licensure, K-12, requires the above 40 semester hours including SPN 421, SPN 422 and SPN 451, or FRE 401 or its substitute, plus 35 semester hours of professional studies courses in education and psychology.

Chinese

CHN 121. ELEMENTARY CHINESE I

4 sh

An introduction to Chinese language and culture, this course assumes no prior knowledge. Practical, conversational usage of the language is stressed as is study of the culture of China. No prerequisite. Offered fall.

CHN 122. ELEMENTARY CHINESE II

4 sh

This course is designed for students with some prior knowledge of the language and serves as a systematic review within a cultural context. Practical, conversational usage of the language is stressed as is the culture of China. Prerequisite: CHN 110 or 121, three years of high school Chinese or permission of the instructor. Offered spring.

CHN 221. INTERMEDIATE CHINESE I

4 sh

This course is designed for students who have mastered the basic concepts of the language. Speaking skills and character writing within a cultural context are further developed. Prerequisite: Chinese 121 or 210, four years of high school Chinese or permission of the instructor.

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French

FRE 121. ELEMENTARY FRENCH I

4 sh

This course is designed for students with little or no prior experience in the language. Special emphasis is placed on active communication to develop oral and comprehension skills. Students will learn to converse and write about daily routines, likes and dislikes in the present and commence usage of past tenses. Factual information about the nature of daily life and routines in French and Francophone cultures will also be acquired. Proficiency goal on the ACTFL scale: novice high. No prerequisite or admission by placement test. Offered every semester.

FRE 122. ELEMENTARY FRENCH II

4 sh

This course continues development of skills in basic structures within increasing cultural and literary competence. Special emphasis continues to be placed on development of oral and comprehension skills. Students will learn to discuss topics of a personal nature in present, past and future, and to express opinions on a limited range of topics. Knowledge of French and francophone history and cultures is also extended. Proficiency goal on the ACTFL scale: Intermediate low. Prerequisite: FRE 110 or 121 or placement at this level.

FRE 221. INTERMEDIATE FRENCH I

4 sh

This course provides intensive development of all language skills. Increased emphasis is given to reading strategies and composition. Students will be able to describe, analyze, hypothesize and express opinions on a widening range of cultural topics. Proficiency goal on the ACTFL scale: Intermediate mid. Prerequisite: FRE 210 or 122 or placement at this level.

FRE 222. INTERMEDIATE FRENCH II**4 sh**

This final course in the basic language sequence consolidates skills attained in French 121, 122 and 221, or the equivalent. Advanced reading, writing and speaking skills are developed through study of increasingly sophisticated cultural and literary topics. This course or its equivalent is the prerequisite for all French courses numbered 300 or higher. Proficiency goal on the ACTFL scale: Intermediate high. Prerequisite: FRE 310 or 221 or placement at this level.

FRE 321. CONVERSATION**4 sh**

Conversational study develops abilities in everyday spoken communication with emphasis on building vocabulary and speaking proficiency. Prerequisite: FRE 222 or four or more years of high school French or permission of instructor. Offered every third year.

FRE 322. WRITTEN AND ORAL EXPRESSION IN FRENCH**4 sh**

Intensive practice in oral and written expression focuses on refinements in structure, conversation and writing for specific purposes. Prerequisite: FRE 222 or permission of instructor. Offered every third year.

FRE 331. INTRODUCTION TO FRENCH LITERATURE I**4 sh**

Major texts of literature of France from the Middle Ages through the 18th century are taught in their historical, social and cultural context. Prerequisite: FRE 222 or permission of instructor. Offered every third year.

FRE 332. INTRODUCTION TO FRENCH LITERATURE II**4 sh**

Major French literary texts since the French Revolution are taught in their historical, social and cultural context. Prerequisite: FRE 222 or permission of instructor. Offered every third year.

FRE 341. FRANCOPHONE LITERATURE**4 sh**

This course covers the major texts of French expression from Africa, the Antilles and Canada. Prerequisite: FRE 222 or permission of instructor. Offered every third year.

FRE 361. FRENCH CIVILIZATION**4 sh****143**

A survey of the history, geography, people and institutions of France from prehistoric times to the present emphasizes France's many contributions to Western civilization. Prerequisite: FRE 222 or permission of instructor. Offered every third year.

FRE 362. FRANCOPHONE CULTURES OUTSIDE FRANCE**4 sh**

This course studies regional cultures around the world influenced by France, notably Africa, the Antilles and Canada. Prerequisite: FRE 222 or permission of instructor. Offered every third year.

FRE 363. THE FRENCH CINEMA**4 sh**

A chronological approach to the study of the French cinema, beginning with the first films of the Lumière brothers and including the silent era, the period between the wars, the postwar period, the New Wave and the contemporary cinema. The course includes consideration of the work of major directors as well as cultural and artistic characteristics of French cinema. Prerequisite: FRE 222 or permission of the instructor.

FRE 371-379. SPECIAL TOPICS**4 sh**

Topics may include advanced study of cinema, selected literary authors, periods, genres or regions. Prerequisite: FRE 222 or permission of instructor.

FRE 401. FRENCH LINGUISTICS**4 sh**

Practice in phonetic transcriptions and sound discrimination is part of this study of the French language system, including phonology, morphology and semantics. Prerequisite: FRE 222 or permission of instructor. Offered every third year.

FRE 481. INTERNSHIP**1-4 sh**

The internship provides students with practical experience using French in a professional setting. It may include internships in teaching, social service, government service, business, etc., in the U.S. or abroad. Prerequisite: at least one course above the FRE 222 level and departmental approval.

FRE 491. INDEPENDENT STUDY**2-4 sh***German***GER 121. ELEMENTARY GERMAN I****4 sh**

This course is designed for students with little or no prior experience. Special emphasis is placed on active communication to develop oral and comprehension skills. Students will learn to communicate about daily routines, likes and dislikes in the present tense. Factual information about the nature of daily life and routines in German-speaking cultures will also be acquired. Proficiency goal on the ACTFL scale: novice high. No prerequisite. Students with prior experience in the language will take the placement test for possible placement in German 122.

GER 122. ELEMENTARY GERMAN II**4 sh**

This course continues development of skills in basic structures within increasing cultural and literary competence. Special emphasis is placed on development of oral and listening comprehension skills. Students will learn to discuss topics of a personal nature in present, past and future, and to express opinions of a limited range of topics. Knowledge of German-speaking history and cultures is also extended. Proficiency goal on the ACTFL scale: intermediate low. Prerequisite: GER 110 or 121 or placement at this level. Offered spring.

GER 221. INTERMEDIATE GERMAN I**4 sh**

This course provides intensive development of all four language skills. Increased emphasis is given to reading strategies and composition. Students will be able to describe, analyze, hypothesize and express opinions on a widening range of cultural topics. Proficiency goal on the ACTFL scale: intermediate mid. Prerequisite: GER 210 or 122 or placement at this level.

GER 222. INTERMEDIATE GERMAN II**4 sh**

This final course in the basic language sequence consolidates skills attained in German 121, 122 and 221 (or the equivalent study elsewhere). Advanced reading, writing and speaking skills are developed through study of increasingly sophisticated cultural and literary topics. This course or its equivalent is the prerequisite for all German courses numbered 300 or higher. Proficiency goal on the ACTFL scale: intermediate high. Prerequisite: GER 221 or 310 or placement at this level. Offered spring.

GER 371-4. SPECIAL TOPICS**4 sh**

Topics may include advanced study in culture or literature. Prerequisite: GER 222.

*Greek***GRK 110. ELEMENTARY GREEK****4 sh**

This intensive study covers Hellenistic Greek grammar and vocabulary.

GRK 210. INTERMEDIATE GREEK**4 sh**

Intermediate study includes readings in Greek from the First Letter of John and the Gospel of Mark in the Greek New Testament to improve grammar and vocabulary.

GRK 310. ADVANCED GREEK**4 sh**

Readings include the letters of Paul in the Greek New Testament to reach advanced levels of grammar and vocabulary.

*Italian***ITL 100. SURVIVAL ITALIAN: STUDY ABROAD****2 sh**

For students with no previous experience in Italian. Students who have taken any previous coursework in Italian in high school or college cannot get credit for this course. An introduction to basic survival skills in Italian especially for students who will study abroad in Italy during the winter or summer terms. Emphasis is on the vocabulary, grammatical structures and cultural knowledge necessary to complete basic survival tasks in Italian, including greeting natives politely, requesting and understanding directions, changing money, ordering a meal, making purchases, requesting a resolution to a problem in a hotel, etc. Taught in Italian. Does NOT count toward the General Studies civilization requirement.

ITL 121. ELEMENTARY ITALIAN I**4 sh**

This course is designed for students with little or no prior experience in the language. Special emphasis is placed on active communication to develop oral and comprehension skills. Students will learn to converse and write about daily routines, likes and dislikes in the present, and commence usage of past tenses. Factual information about the nature of daily life and routines in Italian culture will also be acquired. Proficiency goal on the ACTFL scale: novice high. No prerequisite or admission by placement test.

ITL 122. ELEMENTARY ITALIAN II**4 sh**

This course continues development of skills in basic structures within increasing cultural and literary competence. Special emphasis continues to be placed on development of oral and comprehension skills. Students will learn to discuss topics of a personal nature in present, past and future, and to express opinions on a limited range of topics. Knowledge of Italian history and culture is also extended. Proficiency goal on the ACTFL scale: Intermediate low. Prerequisite: ITL 110 or 121 or placement at this level. Offered spring.

ITL 221. INTERMEDIATE ITALIAN I**4 sh**

This course provides intensive development of all language skills. Increased emphasis is given to reading strategies and composition. Students will be able to describe, analyze, hypothesize and express opinions on a widening range of cultural topics. Proficiency goal on the ACTFL scale: Intermediate mid. Prerequisite: ITL 210 or 122 or placement at this level.

ITL 222. INTERMEDIATE ITALIAN II**4 sh**

This final course in the basic language sequence consolidates skills attained in Italian 121, 122 and 221, or the equivalent. Advanced reading, writing and speaking skills are developed through study of increasingly sophisticated cultural and literary topics. Proficiency on the ACTFL scale: Intermediate high. Prerequisite: ITL 221 or 310 or placement at this level. Offered spring.

*Japanese***JPN 121. ELEMENTARY JAPANESE I****4 sh**

An introduction to the Japanese language and culture, this course assumes no prior knowledge. Practical, conversational usage of the language is stressed as is a study of the culture of Japan. Japanese syllabaries (Hiragana and Katakana) and some Kanji (Chinese characters) are also introduced and taught in the cultural readings. No prerequisite. Offered fall.

JPN 122. ELEMENTARY JAPANESE II**4 sh**

This course is designed for students with some prior knowledge of the language and serves as a systematic review within a cultural context. Linguistic elements of the language are introduced with practical, conversational usage of the language stressed. More Kanji characters are taught to help develop reading and writing skills. Prerequisite: JPN 110 or 121, three years of high school Japanese or permission of the instructor. Offered spring.

JPN 221. INTERMEDIATE JAPANESE I**4 sh**

This course is designed for students who have mastered some basic concepts of the language. Advanced linguistic skills are introduced with concepts to help develop oral communication within a cultural context. Kanji characters are continually introduced to enhance advanced reading and writing skills. Prerequisite: JPN 122 or 210, four or more years of high school Japanese or permission of the instructor.

*Latin***LAT 121. ELEMENTARY LATIN I****4 sh**

This course provides a survey of elementary Latin grammar and syntax while giving some practice in reading and writing Latin. During the study of the language, students will be introduced to the culture of the Romans through the study of their language. No prerequisite.

LAT 122. ELEMENTARY LATIN II**4 sh**

This course in the continuation of LAT 121 and completes the study of Latin grammar and syntax while providing more in-depth practice in the reading of ancient authors. Prerequisite: LAT 121 or 170 or placement at this level.

*Spanish***SPN 115. ELEMENTARY SPANISH CONVERSATION****2 sh**

This course introduces the students to the Spanish language primarily through the development of oral communication skills of speaking, listening and culturally-appropriate courtesy requirements, plus some reading and writing skills. Prerequisite: SPN 110 or 120 or 121, one year of high school Spanish or permission of instructor. No credit will be given to students who have completed SPN 122 or higher. Offered first half of spring.

SPN 120. ELEMENTARY SPANISH REVIEW**2 sh**

This course is designed for students who have some previous experience in the language but need a refresher course before beginning study at the 122 level. Proficiency goal on the ACTFL scale: Novice High. Prerequisite: The equivalent of at least one or two semesters of high school Spanish.

SPN 121. ELEMENTARY SPANISH I**4 sh**

This course is for true beginners with no prior experience in the language. Special emphasis is placed on active communication, to develop oral and comprehension skills. Students will learn to converse and write about daily routines, likes and dislikes in the present. Factual information about the nature of daily life and routines in Hispanic cultures and simple literary selections will also be introduced. Proficiency goal on the ACTFL scale: Novice High. **NO PREREQUISITE:** Students with prior study of Spanish may **NOT** take this course for credit; such students should take Spanish 120.

SPN 122. ELEMENTARY SPANISH II**4 sh**

This course continues development of skills in basic structures within increasing cultural and literary competence. Special emphasis continues to be placed on development of oral and comprehension skills. Students will learn to discuss topics of a personal nature in present, past, and future, and to express opinions on a limited range of topics. Knowledge of Hispanic history and cultures is also extended. Proficiency goal on the ACTFL scale: Intermediate-Low. Prerequisite: SPN 110 or 120 or 121 or placement at this level.

SPN 215. INTERMEDIATE SPANISH CONVERSATION**2 sh**

Designed for students with some prior knowledge of the language, this course continues the student's development of oral communication skills and provides the student with the language needed to survive in situations in which Spanish must be used. Prerequisite: SPN 122, two years of high school Spanish or permission of instructor.

No credit will be given to students who have completed SPN 210 or 221 or higher. Offered second half of spring.

SPN 221. INTERMEDIATE SPANISH I

4 sh

This course, for students who have completed Spanish 122 or three or four years of high-school Spanish, provides intensive development of all language skills. Increased emphasis is given to reading strategies and composition. Students will be able to describe, analyze and express opinions on a widening range of topics. Proficiency goal on the ACTFL scale: Intermediate-Mid. Prerequisite: SPN 210 or 122 or placement at this level.

SPN 222. INTERMEDIATE SPANISH II

4 sh

This final course in the basic language sequence consolidates skills attained in Spanish 121, 122 and 221, or the equivalent. Reading, writing and speaking skills are developed through study of increasingly sophisticated cultural and literary topics. At the end of the course, students should be able to use complex grammatical structures including the subjunctive and will be prepared to succeed in a variety of classes at the 300 level. Proficiency goal on the ACTFL scale: Intermediate-High. Prerequisite: SPN 310 or 221 or placement at this level.

SPN 315. ADVANCED SPANISH CONVERSATION

2 sh

This course is designed for students who have mastered the basic concepts of the language. The major focus of this course is to provide the learner with the specific vocabulary needed to communicate at an intermediate-high or advanced-low level of proficiency and to enable him/her to express himself/herself in practical situations. Prerequisite: SPN 222 or 310, three years of high school Spanish or permission of instructor. No credit will be given to students who have already completed a 400-level Spanish course. Offered second half of spring.

SPN 320. INTRODUCTION TO LITERARY ANALYSIS IN SPANISH

4 sh

This course is designed to teach students basic techniques in the analysis of literary texts, as well as terminology and concepts used in the close reading and understanding of four literary genres: narrative, poetry, drama and the essay. Readings from both Latin America and Spain will be studied. Students will practice using literary tools as they read, discuss and compose written analyses of selected texts, thereby preparing them for more advanced courses in Spanish and Spanish American literature. Prerequisite: Spanish 222, at least four years of high school Spanish or instructor's permission. Offered fall semester.

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SPN 321. CONVERSATION

4 sh

Conversational Spanish involves intensive practice in everyday communication situations with emphasis on vocabulary and speaking proficiency. Includes grammar review. Prerequisite: SPN 222 or permission of instructor. Offered every semester.

SPN 322. COMPOSITION

4 sh

Intensive practice in written expression focusing on refinements in structure, vocabulary expansion and a variety of writing tasks including preparation for formal academic writing. Includes intensive grammar review. Prerequisite: SPN 222 or permission of instructor. Offered every semester.

SPN 331. SPANISH LITERATURE I

4 sh

This course will study archetypes and icons of peninsular Spanish literature written before 1800, including such figures as the Cid, Celestina, the pícaro, Don Juan, Segismundo and others. Prerequisite: Spanish 320 or permission of instructor. Offered every other year.

SPN 332. SPANISH LITERATURE II

4 sh

This course continues a survey of Spanish literature through the 18th, 19th and 20th centuries. Prerequisite: SPN 320 or permission of instructor. Offered every other year.

SPN 341. LATIN AMERICAN LITERATURE I: DISCOVERY, CONQUEST, COLONIAL ERA AND INDEPENDENCE**4 sh**

This survey course introduces students to the literature of the Spanish-speaking nations of Latin America from the 15th century through the 19th century. Emphasis is on the 300-year period when the Latin American nations were colonies of Spain, and on the 19th century, when these nations freed themselves from Spanish rule, but were still under the literary influence of the mother country. Prerequisite: SPN 320 or permission of instructor. Offered every other year.

SPN 342. LATIN AMERICAN LITERATURE II: FROM MODERNISM TO MAGIC REALISM**4 sh**

This survey course introduces students to the rich literature of Latin America in the 20th century. Emphasis is placed on the Modernist movement, major women writers, Pablo Neruda, other Nobel Prize winners and the Magic Realism movement. Prerequisite: SPN 320 or permission of instructor. Offered every other year.

SPN 361. SPANISH CIVILIZATION**4 sh**

A study of the history, geography and people of Spain from prehistoric times to the present, which emphasizes Spain's many contributions to Western civilization. Prerequisite: SPN 222 or permission of instructor. Offered every other year.

SPN 362. LATIN AMERICAN CIVILIZATION**4 sh**

This course examines Latin American geography, history, art, architecture, music, government, economy, ethnicity, languages and culture, including a study of each country. Prerequisite: SPN 222 or permission of instructor. Offered every other year.

SPN 363. LATINOS IN THE U.S.**4 sh**

This course is an interdisciplinary study of the diversity of the culture, history, and social, economic and political situation of the Latino population in the United States. We will approach the subject through literature, film and music, through current articles from various disciplines and through direct contact with the local Latino population. This course continues to develop student's language skills in Spanish. Course conducted in Spanish. Prerequisite: successful completion of SPN 222 or equivalent or instructor's permission and successful completion of the sophomore writing assessment. Readings in Spanish and English. Offered every other year.

SPN 371-379. SPECIAL TOPICS**4 sh**

Topics may include advanced study of language, cinema, selected literary authors, periods, genres or regions. Prerequisite: SPN 222 or permission of instructor.

SPN 415. ADVANCED CONVERSATION FOR RETURNEES**2 sh**

Designed for students who have mastered the basic concepts of the language and have spent a term or semester abroad in a Spanish-speaking program. Provides the advanced level student with an opportunity to maintain speaking skills enhanced by the study abroad experience. Prerequisite: at least one term abroad in a Spanish-speaking study abroad program. Offered spring semester.

SPN 421. ADVANCED GRAMMAR I**4 sh**

An intensive study of the most problematic parts of the Spanish verb system. Particular attention will be given to the two past tenses (preterit and imperfect), *ser* versus *estar* and the subjunctive. Composition, translation and oral practice will all be used to increase grammatical accuracy. Prerequisite: at least one upper-level Spanish course above SPN 320 or permission of instructor. Offered every other year.

SPN 422. ADVANCED GRAMMAR II**4 sh**

A continuation of SPN 421 Advanced Grammar I, but 421 is not a prerequisite for this course. Topics will include: object pronouns and the dative of interest construction; other uses of pronouns; the passive voice and substitute constructions; impersonal con-

structions; relative clauses; adverbs and adverbial clauses; and prepositions, with particular attention to *por* and *para*. The course will include readings, compositions, and Internet research projects and class presentations. Prerequisite: at least one advanced level Spanish course (i.e., above SPN 320) or permission of the instructor. Recommended, but not required: SPN 421. Offered every other year.

SPN 451. PHONETICS

4 sh

This course is designed to give students an in-depth understanding of the phonetic system of the Spanish language and to perfect the student's pronunciation. Students will learn how sounds are produced and will learn to imitate native speakers accurately through a variety of classroom exercises, recordings and videos. Through phonetic transcription and listening exercises, students will learn to hear accurately and to distinguish between similar sounds. Students will also study with wide phonetic variations that occur within the Spanish-speaking world. Prerequisite: SPN 222 or permission of instructor. Offered every other year.

SPN 461. TRANSLATION

4 sh

Designed to help advanced students refine their language skills and express themselves more accurately in Spanish by focusing on form through intensive translation practice. Includes practice in both Spanish-to-English and English-to-Spanish translations, incorporating concepts such as cognates and false cognates, metaphorical language, different registers and the importance of maintaining the tone and register of the original text in the translation. Different problems inherent in the translation process are discussed. Prerequisite: at least one course above the SPN 320 level or permission of the instructor. Recommended but not required: SPN 421, Advanced Grammar I. Offered every other year.

SPN 465. COLLOQUIUM ON HISPANIC STUDIES

4 sh

This capstone course focuses on the critical study and analysis of specific historical moments, selected works, topics or themes in literary and cultural history. Course content will alternate between peninsular and Latin American topics, or combine readings from each area. As part of their senior assessment, students will complete original research on a topic, present their findings orally to the class and department members and write a research paper on the same topic in Spanish. In order to graduate with a Spanish major, students must pass this course with a C or better. Prerequisite: At least two courses beyond the 322 level and junior or senior standing. Offered fall semester.

SPN 481. INTERNSHIP

1-4 sh

This course provides students with practical experience using Spanish in a professional setting and may include internships in teaching, social service, government service, business, etc., in the U.S. or abroad. Prerequisite: at least one course above the SPN 222 level and departmental approval.

SPN 491. INDEPENDENT STUDY

2-4 sh

General Studies

Director: Associate Professor Braye

The General Studies Program gives breadth as well as depth to a college education. It provides students with opportunities to see the broad view of human civilization, experience great ideas and art and learn the science and math skills without which no contemporary leader or individual can be without.

Through training in writing and other communication skills as well as in learning to work independently, to think critically and constructively, to handle quantitative data, to respect cultures worldwide and to develop habits of responsible leadership, this program

develops the whole person. The General Studies program is a major focus of a college career from beginning to end — challenging students, preparing them for both leadership and independent thought and, most of all, deepening and enriching their lives.

GST 110. THE GLOBAL EXPERIENCE

4 sh

This first-year seminar examines public responsibility in a global context. It explores some of the implications created by cultural and natural diversity and the possibilities for human communication and cooperation within this diversity. The course emphasizes student and faculty creativity through active and collaborative learning; the seminar is writing intensive. First-year students only. Offered fall and spring.

GST 281. THE LIBERAL ARTS FORUM

2 sh

Students will work with the Forum, a student-run and SGA-funded organization, to select speakers, host their visits and prepare for conversations with them through reading, writing papers, making presentations and joining discussions. Offered fall.

GST 282. THE LIBERAL ARTS FORUM

2 sh

See description for GST 281. Offered spring.

GST 300-499. ADVANCED INTERDISCIPLINARY SEMINARS

These seminars are the capstone of the General Studies Program. Students work with faculty to examine an issue or topic from multiple viewpoints. The subjects of these seminars are chosen by individual faculty members and vary from semester to semester. More than 25 different topics are offered each academic year. The diverse topics reflect the expertise and interests of faculty from across the campus and allow students a wide range of choices. These courses require advanced critical thinking skills: students must weigh multiple opinions, evaluate theoretical and ethical positions and define and defend their own personal positions. Taken in the junior or senior year, these seminars are writing intensive, requiring students to write frequently and in a variety of ways. Prerequisite: successful completion of sophomore writing assessment.

Selected recent seminars

150

These topics may, or may not, be offered in the future.

GST 338. AMERICAN ADOLESCENCE

4 sh

This interdisciplinary seminar explores the male and female experience of coming of age in America. We will study major psychological and sociological theories of adolescence and examine how the transition from childhood to adult life is represented in literature and film. Counts toward the Women's Studies/Gender Studies minor. Prerequisite: successful completion of sophomore assessment.

GST 346. CHILDBIRTH

4 sh

This course will provide students with the opportunity to explore the topic of childbirth from a personal, biomedical, psychosocial, cultural and historical perspective. Students will write a scholarly paper and work in teams to research particular areas related to childbirth. Counts toward the Women's Studies/Gender Studies minor. Prerequisite: successful completion of sophomore assessment.

GST 348. LIFE STORIES

4 sh

This course helps students identify the "life stories" they are living. It draws on literary, psychological, religious and philosophical resources. Daily writing assignments from Sam Keen's *Your Mythic Journey* will culminate in a personal story which remembers the past, reflects on the present, envisions a future and clarifies personal beliefs and values. Contemporary films such as *A River Runs Through It* and conversations with community partners will serve as additional catalysts for writing one's story.

GST 365. QUEST FOR WHOLENESS

4 sh

This course is a two-semester mentorship which meets once a week to create a space where learning and life can be integrated from the perspective of the humanities. The

work of the year concentrates on the professional and personal, on work and relationships, on inner development and service to others. The inquiry touches all seven domains of life: personal, interpersonal, familial, institutional, cultural, planetary and the encompassing sphere of mystery.

GST 369. MEN AND MASCULINITY

4 sh

This course will take an in-depth look at how various cultures (Western and non-Western) have defined masculinity. Sources of investigation will include literature, the media and social institutions such as the family, religion, politics, leisure and others. The course will explore how men conceptualize their bodies and spirits, and how they practice relationships with other men, women, parents and progeny. Counts toward the Women's Studies/Gender Studies minor. Prerequisite: successful completion of sophomore assessment.

GST 384. THE KENNEDY ASSASSINATION AND FILM

4 sh

This course will explore the details of the assassination of President John F. Kennedy and the way it has been presented in film. Special emphasis will be placed on the study of the assassination as a film genre and any residual effects on the world of motion pictures.

GST 401. LATINOS IN THE U.S.

4 sh

This course is conducted in Spanish. Studies the diversity of the culture, history and social, economic and political situation of the Latino population in the United States through literature, film, music, current articles on the subject and direct contact with the population when possible. Readings will be assigned in Spanish and English. This course continues to develop students' language skills toward the proficiency goals required of all majors. Prerequisite: successful completion of SPN 310 or equivalent or permission of instructor. Successful completion of sophomore assessment. Cross-listed with SPN 363.

GST 420. SCIENCE & RELIGION: BRIDGING THE GAP

4 sh

This seminar is an exploration of the complex and fascinating interplay of these two ways of knowing. We will study the fundamental uncertainties that form borders to the reach of science and seek to build bridges to the realms of religious experience.

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EXPERIENTIAL LEARNING

1 unit

The Experiential Learning Requirement (ELR) asks students to practice close observation of the world around them and to reflect insightfully on those observations. Exposure to diversity helps students see the interrelationships between academic studies and other experiences. The requirement may be met through one of the following ways: (1) field-based courses: study abroad, internships/co-ops, practicums and student teaching; (2) independent research conducted under the direction of a professor; (3) 40 hours of pre-approved service/volunteer activities (see Kernodle Center for Service Learning); (4) 40 hours of pre-approved leadership activities (see Leadership Development Office); and (5) 40 hours of pre-approved individualized learning activities (see Career Center).

Geographic Information Systems

Coordinator: Assistant Professor Xiao

Associate Professors: Glaesel Frontani, MacFall, Morgan, Powell

Lecturer: Kleckner

The Geographic Information Systems minor is designed to prepare students with the basic training necessary to enter the rapidly expanding field of geographic information science (GIS). Employment opportunities are limitless for students who are proficient with this interdisciplinary tool. Well-qualified GIS specialists are sought in the areas of environmental study, physical sciences, business, economics, education, government, planning and international industries. The minor is designed to provide students with basic knowledge and skills in GIS, remote sensing, cartography, database management and computer technology, and to explore application of these skills in courses selected from a wide variety of disciplines. Students are given hands-on experience with state of the art computer programs and software.

This minor includes core courses from the Computing Sciences, History & Geography, Political Science & Public Administration Departments and the Environmental Studies program. There are two components to the curriculum: a set of core courses required of all students enrolled in the program and a set of selective courses that permit exploration of more advanced themes in GIS and/or development of individual research projects or internships in GIS.

A minor in Geographic Information Systems requires the following courses:

ENS/GEO 350	Introduction to Geographic Information Systems	4 sh
CIS 113	Introduction to Database Systems	2 sh
CIS 216	Programming in a Visual Environment	4 sh
GEO 355	Introduction to Cartography	2 sh
GEO 356	Introduction to Remote Sensing	2 sh
GIS 460	Advanced GIS	4 sh

One discipline-specific course that includes a GIS component from:

GEO 121	Introduction to Physical Geography	4 sh
ENS 111/113	Introduction to Environmental Science	4 sh
PUB 334	GIS Applications for Administration and Planning	4 sh

Total		22 sh
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GIS 460. ADVANCED GIS

4 sh

This advanced level course in Geographic Information Systems (GIS) will build on the techniques learned in ENS/GEO 350 (Introduction to Geographic Information Systems) by exposing students to more advanced methods in developing and utilizing GIS data. It is designed primarily to provide students with an in-depth understanding of GIS applications, the theoretical/conceptual side of algorithms in GIS software and GIS research trends. Prerequisites: GEO 350, GEO 356.

Geography

Coordinator: Associate Professor Glaesel Frontani

Assistant Professor: Honglin Xiao

The geography program offers a minor in Geography. Geography explores the dimensions of space. How does location affect societies, economics, politics, culture and ecosystems? How do we analyze, describe and construct boundaries, both natural and human, which we then impose on the physical and intellectual worlds we live in? The study of geography is much more than maps. It includes study of both the natural world and the varied patterns of human life on both the macro and micro scales.

Graduates with training in geography are sought as: Geographic Information Systems Specialists to work with GIS computer mapping software and related technology for government at the local, state or federal level as well as for a wide variety of businesses and corporations; Regional Specialists to work for the Central Intelligence Agency, Foreign Service, Peace Corps or community activist organizations; Business, Economist and Population Geographers to work for insurance companies, in real estate, for federal agencies such as the Census Bureau or to work in market-oriented businesses; Environment and Recreation Specialists to work for botanical gardens, the U.S. Forest Service, the U.S. Park Service or parks and recreational agencies; and Teachers and Map Librarians to work at elementary or secondary schools or at universities.

Several geography courses count towards area concentrations in the International Studies major and the Society and Environment concentration in the Environmental Studies major. Our GIS lab offers opportunities for hands-on learning and to obtain the latest computer mapping and spatial analysis skills. Gamma Theta Upsilon, the International Honor Society in Geography has a campus chapter.

A minor in Geography requires the following courses:

GEO 121	Introduction to Physical Geography	4 sh
GEO 131	The World's Regions	4 sh
One course from:		4 sh
ENS 111/113 Introduction to Environmental Science and Lab		
PHY 103 Introduction to Geology		
POL 141 International Relations or		
Any 200-level geography course		
Eight semester hours of GEO elective at 300-400 level		8 sh
TOTAL		20 sh

GEO 121. INTRODUCTION TO PHYSICAL GEOGRAPHY

4 sh

Students will examine the processes which control the spatial distribution of climate, vegetation, soils and landforms. Topics include earth-sun geometry, global energy balance, hydrology, tectonics weathering and mass wasting, climatic classification and climatographs, arid land and coastal and fluvial geomorphology. Focus will be on the Earth as the home of humans and the impact of humans on their environments.

GEO 131. THE WORLD'S REGIONS

4 sh

This survey of the regions of the world emphasizes place names and environmental and human characteristics which provide both the common traits and the distinctive characteristics of different places. Students analyze change, problems, potentials and alternative futures and use traditional and electronic data sources, atlases and methods of data presentation. Offered fall and spring.

GEO 310. DEVELOPMENT AND THE ENVIRONMENT IN LATIN AMERICA, AFRICA AND SOUTH ASIA**4 sh**

This course is concerned with environmental issues primarily in “developing” countries. This course will provide a forum for discussing and analyzing the geopolitics of international environmental conservation programs often devised in wealthier countries but applied in the “third world” as well as the social and environmental consequences of large-scale and small-scale development projects.

GEO 320. GEOGRAPHY OF AFRICA**4 sh**

This course surveys the physical, cultural and political-economic geography of Africa with an emphasis on human-environment relationships. Important themes include the diversity of people (ethnicity, gender and religion), tropical deforestation, farming systems, social unrest, refugees, AIDS, drought and famine, dams and irrigation schemes, urbanization, endangered species, wildlife conservation and parks. All students will participate in a major experiential learning project. Counts toward a minor in African/African American Studies.

GEO 331. STUDY ABROAD: ANALYZING YOUR INTERNATIONAL EXPERIENCE**4 sh**

This course is designed for students who have studied abroad and would like to reflect upon and expand their understanding of their experiences overseas in a shared learning setting. We will explore issues of identity and place, ideology (values, norms and customs), society (conformity/autonomy, gender and class) and structure (religious, political and economic) as we share, analyze and reflect upon our international experiences. The course contains significant research and/or experiential service-learning components. Prerequisite: study abroad for at least two winter terms or one semester.

GEO 342. GENDER AND ENVIRONMENT IN SOUTH AMERICA**4 sh**

This course will explore how people's interactions with nature as well as their political and social environments are influenced by gender. Through autobiographies, videos, ethnographies, diaries, travel narratives and more, we will look into the lives of male and female political prisoners, activists for environmental and social change, the homeless and others in a regional context of democratization, rapid urbanization and an ongoing drug trade. Counts towards the Women's Studies/Gender Studies minor.

GEO 350. INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS**4 sh**

In this course the student will be introduced to the concept of visualizing, exploring and analyzing data geographically. The student will obtain hands-on experience of display, analysis and presentation of mapping functions using the latest ArcView GIS software. Assignments will be geared toward environmental management and decision making. GEO 350 is cross-listed with ENS 350. Offered in the fall.

GEO 355. INTRODUCTION TO CARTOGRAPHY**2 sh**

This course serves as an introduction to the art and science of cartography, covering its history, basic elements of maps, map projections, scales and generalization, measurements from maps, topographic features, qualitative and quantitative information, basic surveying techniques, the elements of map design and the presentation, compilation and production of maps using a variety of different mapmaking techniques and technologies.

GEO 356. INTRODUCTION TO REMOTE SENSING**2 sh**

This course provides an introduction to the basic concepts and processes of remote sensing, covering the principles of electromagnetic radiation and its interaction with the atmosphere and earth surface, basic photogrammetry, aerial photographs and satellite data interpretation, and digital image processing. Students will be exposed to remote sensing theory and hands-on exercises involving satellite data using the industry standard computer programs.

GEO 360. ADVANCED GIS**4 sh**

This advanced level course in Geographic Information Systems (GIS) will build on the techniques learned in ENS/GEO 350 (Introduction to Geographic Information Systems) by exposing students to more advanced methods in developing and utilizing GIS data. It is designed primarily to provide students with an in-depth understanding of GIS applications, the theoretical/conceptual side of algorithms in GIS software and GIS research trends. Prerequisite: GEO 350 or permission of instructor.

GEO 481. INTERNSHIP IN GEOGRAPHY**1-4 sh**

Internship is limited to four semester hours credit toward geography minor. Prerequisites: GEO 121, 131 and permission of instructor.

GEO 491. INDEPENDENT STUDY**1-4 sh****GEO 499. INDEPENDENT RESEARCH****1-4 sh**

Students engage in independent research projects related to the field of geography in conjunction with a faculty mentor. Prerequisites: junior or senior status and geography program approval.

Health Education

Chair, Department of Health and Human Performance: Professor J.P. Brown

Professors: Beedle, Calhoun

Associate Professors: Davis, Miller

Assistant Professors: Baker, Hall, Parson, Smith, Walch

Instructors: Allen, Reilly, Stevens

The health education curriculum located within the Health and Human Performance Department is designed to prepare teachers of health and safety education (kindergarten through senior high school) in both public and private school systems. The program of study incorporates school goals and objectives for establishing and maintaining quality health education programs that are planned, comprehensive, personalized, practical, sequential and oriented toward mental, social and physical well-being.

This is accomplished through a wide range of specialized theory courses and many opportunities to apply, evaluate and refine necessary skills in laboratory settings. Studies in health education explore ways to educate students and the public about contemporary health issues such as personal safety, nutrition, substance abuse, disease prevention and human sexuality.

A major in Health Education requires the following courses:

HED 220	First Aid	1 sh
HED 321	Health Services and Consumerism	4 sh
HED 324	Nutrition	4 sh
HED 325	Substance Abuse and Human Behavior	4 sh
HED 326	Human Sexuality	4 sh
HED 421	Chronic and Acute Diseases	4 sh
PED 305	Legal Aspects	2 sh
PED 411	Measurement and Evaluation	4 sh
BIO 161	Human Anatomy	4 sh
BIO 162	Human Physiology	4 sh

EDU 427	Materials and Methods of Teaching Health and Safety	4 sh
Completion of Teacher Licensure requirements		
TOTAL		39 sh

Students must complete the professional studies requirements listed for Special Subjects areas (K-12) under Education.

Physical Education endorsement (for students with teacher licensure) requires the following courses:

EDU 423	Materials and Methods of Teaching Physical Education	4 sh
Sixteen additional hours chosen from the following courses:		16 sh
PED 125	Skills and Activities for Teaching (3 sh)	
PED 211	History/Foundations of Sport/Physical Education	
PED 310	Motor Learning Theory for Teaching and Coaching	
PED 321	Biomechanics	
PED 341	Theory of Coaching (2 sh)	
PED 360	Elementary Physical Education (K-6)	
PED 401	Adapted Physical Education (2 sh)	
PED 410	Organization and Administration	
ESS 422	Physiology of Exercise	
TOTAL		20 sh

A minor in Health Education requires the following courses:

HED 324	Nutrition	4 sh
HED 325	Substance Abuse and Human Behavior	4 sh
HED 326	Human Sexuality	4 sh
Eight semester hours chosen from additional courses		8 sh
required for the Health Education major. (Not including EDU 427)		
TOTAL		20 sh

HED 111. CONTEMPORARY WELLNESS ISSUES **2 sh**

Students will study selected topics in personal wellness. Topics may include nutrition and weight control, exercise for health and wellness, psychosocial aspects of health and wellness and the effects of alcohol and other drugs. Students will examine current issues pertaining to personal choices and well-being. This course meets half-semester fall and spring.

HED 220. FIRST AID **1 sh**

This is a course which provides a background in first aid and CPR principles, procedures and skills emphasized in the latest American Red Cross courses. Consideration is given to personal and community safety in everyday living. Special fee: \$23. Offered fall and spring.

HED 321. HEALTH SERVICES AND CONSUMERISM **4 sh**

This introduction to comprehensive health education emphasizes health trends, objectives, products, services and factors that influence personal choice in the health marketplace. Students study methods of identifying and managing major health risk behaviors and investigate health education in the school and community, health services, resources, networking and health promotion. Experiential hours in a community health agency required. Prerequisite: junior/senior standing. Offered fall of odd years.

HED 324. NUTRITION**4 sh**

This course provides a comprehensive study of nutrient basics, digestion, metabolism, vitamins, minerals, supplements, steroids, weight management, eating disorders, nutritional deficiencies and imbalances. Emphasizes practical application of nutrition concepts throughout the life cycle and investigates food technology and food safety. Prerequisite: junior/senior standing. Offered fall.

HED 325. SUBSTANCE ABUSE AND HUMAN BEHAVIOR**4 sh**

This course provides a comprehensive study of factors influencing alcohol and other drug use including personality, societal and biological factors. Emphasizes prevention through the curriculum, identifying the high-risk student and appropriate referrals in the school system and community. Students will gain experience using technology as a strategic resource related to this topic. Prerequisite: junior/senior standing. Offered spring of odd years.

HED 326. HUMAN SEXUALITY**4 sh**

This course provides a comprehensive study of biological and psychosocial sexuality throughout the life cycle, including male and female physiology, contraception, pregnancy, childbirth, sexually transmitted diseases, gender roles, intimate relationships, parenting and deviant sexual behavior. Prerequisite: junior/senior standing. Offered fall of even years.

HED 362. HEALTHFUL LIVING IN THE ELEMENTARY SCHOOL**2 sh**

This course provides a study of health, safety and physical education needs of elementary children (including content and methodology) and the integration of those needs with the curriculum. Observation hours in the public schools required. Prerequisite: EDU 211. Offered fall and spring.

HED 421. CHRONIC AND ACUTE DISEASES**4 sh**

Students study the interdependency of body systems and diseases and conditions that affect human health and well being. Topics include the historical foundation of health professions, immunology, pathophysiology of prominent acute and chronic diseases, sociocultural factors that influence health, and consequences and prevention of major health risk behaviors. Methods of health appraisal and screening are also investigated. Prerequisites: BIO 161, 162. Offered fall and spring.

157**HED 491. INDEPENDENT STUDY****1-4 sh****HED 499. RESEARCH IN HEALTH EDUCATION****1-4 sh*****History***

Chair, Department of History: Professor Bissett
 Professors: Crowe, Digre, Midgett, G. Troxler
 Associate Professors: J. O. Brown, Ellis, Festle
 Assistant Professors: Carignan, Chang, Irons, Nemcik
 Adjunct: Cockrell

The study of history centers on exploration of various economic, social, political, military and religious forces that have transformed the face of the world. It combines analytical thinking and writing with a detailed grasp of the many influences that have brought about historical change.

History is a discipline that explores the dynamics of change from humanistic and social scientific perspectives. Because of the breadth and depth of historical investigation, students who choose to major or minor in history at Elon University find themselves well prepared

for careers that require interaction with people and the ability to write and think analytically.

A major in History requires the following courses:

HST 111	Europe and the Mediterranean World to 1660	4 sh
HST 112	Europe and the Mediterranean World since 1660	4 sh
HST 301	Research Methods	4 sh
Choose one course from:		4 sh
HST 121	United States History through 1865	
HST 122	United States History since 1865	
HST 123	United States and North Carolina since 1865	
Twenty-four hours history electives, 16 of which must be at the 300-400 level:		24 sh
U.S. History (8 sh)		
non-U.S. History (8 sh)		
other electives (8 sh)		
One history seminar course including completion of a senior thesis		4 sh
TOTAL		44 sh

It is strongly recommended that history majors, in consultation with their advisor, select a topical or regional concentration of 12 semester hours at the 300 level and above. Concentration courses will be chosen from among the required 24 elective hours. With the approval of the department chair, four hours from outside the history department may be applied toward the concentration and the elective history credit hour requirement. The history department strongly recommends that history majors considering graduate school take a foreign language.

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History majors receiving teacher licensure must complete the following courses:

HST 111	Europe and the Mediterranean World to 1660	4 sh
HST 112	Europe and the Mediterranean World since 1660	4 sh
HST 121	United States History through 1865	4 sh
HST 123	U.S. and North Carolina	4 sh
HST 301	Research Methods	4 sh
One history seminar course		4 sh
Sixteen hours HST electives at the 300-400 level chosen from each of the following areas:		16 sh
1 United States		
2 Europe		
3 Developing World (Africa, Latin America and Asia)		
4 Minority History (African-Americans, Native Americans and Women)		
GEO 131	The World's Regions	4 sh
POL 111	American Government	4 sh
Set of Professional education courses		35 sh
TOTAL		83 sh

A minor in History requires the following:

Four semester hours chosen from:	4 sh
HST 111 Europe and the Mediterranean World to 1660	
HST 112 Europe and the Mediterranean World since 1660	
HST 221 The World in the Twentieth Century	
Four semester hours chosen from:	4 sh
HST 121 United States History through 1865	
HST 122 United States History since 1865	
HST 123 The United States And North Carolina Since 1865	
Twelve semester hours of history electives at the 300-400 level	12 sh
TOTAL	20 sh

HST 111. EUROPE AND THE MEDITERRANEAN WORLD TO 1660 4 sh

This survey of major developments in the Mediterranean world begins with ancient Mesopotamian and Egyptian civilizations. Students also explore the evolution of the great formative cultures of the Western world (Greece and Rome) and the Middle East and look at their interaction during the Middle Ages, the Renaissance, the Reformation and the beginnings of early modern Europe. Offered fall.

HST 112. EUROPE AND THE MEDITERRANEAN WORLD SINCE 1660 4 sh

A survey of major developments in the Mediterranean world from 1660 to the present. this study covers the rise of the major European powers during the period and discusses their interaction with one another and the Middle East and North Africa, particularly in the 19th and 20th centuries. Offered fall and spring.

HST 121. UNITED STATES HISTORY THROUGH 1865 4 sh

This survey of early U.S. history includes the major political, social, economic and intellectual developments in the U.S. from the first explorations of the continent through 1865, and considers the implications of these events and developments on the American experience after 1865. Offered fall and spring.

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HST 122. UNITED STATES HISTORY SINCE 1865 4 sh

The study of U.S. history continues in this course with emphasis on the major political, social, economic and intellectual developments in the nation from the Civil War to the present. The course also examines how events and developments that occurred prior to 1865 influenced the nation's evolution after the Civil War. No credit for students with prior credit for HST 123. Offered fall and spring.

HST 123. THE UNITED STATES AND NORTH CAROLINA SINCE 1865 4 sh

This survey of U.S. history since the Civil War places special emphasis on how major political, social, economic and intellectual developments in the nation have influenced North Carolina. The course also examines how events and developments that occurred prior to 1865 influenced the nation's evolution after the Civil War. No credit for students with prior credit for HST 122. Offered fall and spring.

HST 131-149. SPECIAL TOPICS 2-4 sh

These courses are designed for entry-level students and address specific topics. Each topic is examined in broad historic context. These courses meet the General Studies requirement. Previous topics have included: the Civil Rights Movement, Anti-Communism in America, Jews and Gypsies in Western Civilization and Being and Becoming Indian.

HST 221. THE WORLD IN THE 20TH CENTURY 4 sh

This survey of contemporary history examines critical events, ideologies and movements that have shaped our world. Students gain an understanding of the historical

context of current global issues by examining developments in Africa, Asia, Europe, Latin America and the Middle East. Offered spring.

HST 251. HISTORY STUDIES ABROAD

4 sh

This course offers a specialized study for those participating in abroad programs. Offered winter.

HST 301. RESEARCH METHODS

4 sh

Students will focus on framing and answering historical questions using a variety of research techniques and both primary and secondary source materials. They will formulate and execute a research project that will result in both a written and oral presentation of their findings. Offered spring.

Africa

HST 313. MODERN AFRICA

4 sh

This survey course explores developments in Africa during the past century (especially regions south of the Sahara) and examines African responses to European imperialism, African independence and the problems faced by the new African states.

HST 314. A HISTORY OF SOUTHERN AFRICA

4 sh

This course examines the forces that have shaped the history of South Africa and its neighbors in the 19th and 20th centuries, focusing on the effects of apartheid on modern South African society.

Russia

HST 316. THE HISTORY OF IMPERIAL RUSSIA TO 1917

4 sh

This course explores the major developments in the history of the Russian state from its origin in the 9th century to the collapse of the tsarist system in 1917. Topics include Kievan Rus and the Mongols, the rise of Moscow, the Westernization efforts of Peter and Catherine the Great and the gradual transformation of Russia from its wars with Napoleon through the overthrow of the Romanov dynasty.

160 HST 317. RUSSIA AND THE SOVIET UNION SINCE 1917

4 sh

This study of modern Russian history explores the Bolshevik communist system, considers the transformation of the Soviet state under Lenin and Stalin and studies Russia's role in World War II and its impact on the USSR afterwards. Topics include the emergence of the Soviet Union as a world power under Stalin, Khrushchev and Brezhnev; Soviet domestic events under all three men and the impact of Mikhail Gorbachev, Boris Yeltsin and other recent Russian leaders.

Asia

HST 320. CHINA, JAPAN & THE PACIFIC CENTURY: ERA OF WAR AND REVOLUTION

4 sh

Pearl Harbor and Hiroshima are infamous names in world history. In many ways they represent the end result of a century of conflict and revolution in Asia that centered around Western efforts to force themselves into the mainstream of Chinese and Japanese societies. This course will explore these conflicts and their impact not only on these two important Asian nations, but on all of the countries that ring the Pacific Rim such as Russia, the United States, Canada and Australia.

British Isles

HST 323. THE MAKING OF THE ENGLISH NATION TO c. 1660

4 sh

A study of English customs, church, common law system, monarchy, national identity and the migration of these features to America. The course spans the development of an English people (Celtic, Roman, Anglo-Saxon, Viking and Norman French) and the ruptures which produced civil war and an English Republic: episodes formative of

American political values.

**HST 324. ENGLAND WITHIN THE BRITISH EMPIRE: 17TH CENTURY
TO THE PRESENT**

4 sh

This course examines the social, religious and constitutional conflicts of the 1640s and the 1680s and their impact on colonial America. This study also traces later changes in the English society, economy and form of government, the United Kingdom's changing role in Europe and the world, and changes in social roles and attitudes, particularly regarding class, gender and race.

HST 326. HISTORY OF IRELAND

2 sh

This study includes Ireland's political and cultural history as well as its influence on the U.S. through emigration. Celtic cultural continuity and adaptation from the early Middle Ages to the present are explored through traditional folkways, music, tales, art and literature in historical contexts.

HST 327. HISTORY OF SCOTLAND

2 sh

Focus is on Scotland's evolution as a nation sharing an island with Wales and England. We explore the role of Celtic and Viking cultural continuity in shaping a Scot consciousness centered on a Highlands ideal and perpetuated by emigration. Students use oral history, folkways and musical and balladry traditions in historical contexts.

Europe

HST 332. DAILY LIFE IN EARLY MODERN EUROPE, 1350-1750

4 sh

This course examines how Europeans lived, day to day, from the time that the Black Death swept the continent to the Industrial Revolution. Topics include marriage, food, housing, witchcraft, clothing, court life, violence, sports, religion, childhood and death. Students examine life in the countryside and town, as well as the rich, the poor and everyone in between.

HST 335. GROWTH OF MODERN EUROPE, 1789-1914

4 sh

This course explores the period between the French Revolution and World War I as modern Europe emerged from the old regime. Focus centers on the development of mass politics, the widespread impact of the Industrial Revolution, changes in women's public and private roles, cultural developments from neoclassicism to modernism and the evolution of modern consciousness.

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HST 336. EUROPE, 1914-1945

4 sh

This course provides a study of European history focusing on the two World Wars, the search for stability in the inter-war years and the rise of totalitarianism.

HST 337. EUROPE, 1945 TO THE PRESENT

4 sh

Discussions in this course cover the Cold War, the end of colonial rule, the rise of the European Community, social and intellectual trends, the collapse of communism and the reawakening of nationalism in Eastern Europe.

HST 338. GERMANY: WAR, DEMOCRACY AND HITLER, 1914-1945

4 sh

This course will explore the history of Germany from the outbreak of World War I through the end of World War II. It begins with an examination of the Second Reich (1871-1918) but concentrates on the two world wars and Germany's experiments with democracy during the Weimar Republic and dictatorship during the Nazi era.

HST 339. A HISTORY OF THE HOLOCAUST

4 sh

This history of the Holocaust explores the roots of this event, beginning with historical anti-Semitism and the impact of this tradition on Adolph Hitler and the Nazis. Topics also include Hitler's racial policies between 1933-1938, their spread throughout Nazi Europe between 1939-1941, the evolution of the Final Solution from 1941-45 and post-World War II Holocaust developments and questions.

*Western Hemisphere***HST 341. MODERN CENTRAL AMERICAN HISTORY****4 sh**

This course will introduce the dominant themes of Central American social and political history from independence in the early 19th century through the present day. We will focus on the process of independence, liberalism and the coffee boom, dictatorships and revolutions, counter-revolutions, civil war and United States intervention in the region. We will examine the reasons why the region has been plagued by dictatorships and rebellions throughout the modern era, and why Costa Rica has, in general, been an exception to this trend. The course will additionally address the ways in which ethnicity, class and gender figured into the social movements of resistance and rebellion in modern Central America. The course will emphasize the critical evaluation of primary and secondary source materials reflecting different perspectives on these issues in the region's history. The goal of the course is to enable students to gain an understanding of problems confronting present day Central America by placing them in a historical perspective. Offered spring.

HST 350. HISTORY OF BRAZIL**2 sh**

This course is intended to be an introduction to the history and culture of Brazil, examining the changes and continuities in Brazilian history from the colonial period through the twentieth century. The course explores the influence of colonial and 19th century heritages and of 20th century national and international relations on the formation of modern Brazilian politics, economics and society. A major focus of the course is the interrelationship of the cultures that comprise Brazil – indigenous, Portuguese and African – and how these relationships have changed over time, as well as the significant role played by race, class, gender and ethnicity in the shaping of modern Brazilian culture and society. Offered spring.

HST 351. HISTORY OF MEXICO**2 sh**

An introduction to the history of Mexico and to its contemporary cultural and political life. The role of native peoples is emphasized in the early colonial period and in recent developments. The course also explores Mexico's relationship with the U.S.

HST 352. HISTORY OF CANADA**2 sh**

An introduction to the history of Canada and to its contemporary cultural and political life. Focus is on the development of a Canadian national identity and on present day expressions of that identity within Canada's multicultural context. Offered winter or summer.

HST 353. COLONIAL LATIN AMERICA**4 sh**

This course will survey the history of Latin America from pre-Colombian times through the wars for independence at the beginning of the 19th century. The course seeks to explain the development of a multicultural, multiethnic and multilingual society in Latin America by studying the cultures of pre-Columbian and Iberian societies, the complexities of the interaction between these different cultures as they "met in the Americas" and the historical processes through which new cultures evolved. Some of the major topics that will be discussed include: Amerindian culture, the encounter between Europeans and Amerindians (otherwise known as the Conquest), the rise and fall of colonial empires and colonial society, and the civil wars of independence. Offered fall.

HST 354. MODERN LATIN AMERICA**4 sh**

This course will survey the history of Latin America from the early 19th century to the present. The goal of the course is to enable students to gain an understanding of issues in contemporary Latin America by placing them in a historical perspective. The course is structured thematically focusing on subjects including the social implications of various models of economic development, the opportunities and problems which result from economic ties to wealthy countries, changing ethnic, gender and class relations in

Latin America and the diverse efforts of Latin American people to construct stable and equitable political, economic and social systems. In examining these topics, examples will be drawn from the histories of various Latin American countries. Offered fall.

HST 355. CREATING HISTORY: RECORDING THE REMEMBERED PAST 4 sh

Students learn and practice the techniques of interviewing living historical actors who were involved in a particular period or issue in history, moving from preparatory research through transcribing the results. They also study oral history's strengths, weaknesses, ethics and uses. The specific research topics will vary.

HST 356. EARLY NATIONAL PERIOD, (1787-1840): FORCES THAT SHAPED THE NATION 4 sh

A study of the thought that produced the American Constitution and the implementation of that national government during the administration of its first seven presidents. Topics examine political, social and economic forces that affected national decisions and development.

HST 357. AMERICA'S CIVIL WAR: NATIONAL CATAclysm 4 sh

Beginning with the era of Andrew Jackson, this course focuses on the geographic, economic, social and political dynamics that tore the nation apart. Students analyze the causes of the Civil War and examine its military, social and political facets. A concluding study of the Reconstruction of the nation explores the resolution (or not) of the issues that generated the conflict.

HST 358. THE U.S., 1877-1940: THE CONSEQUENCES OF MODERNIZATION 4 sh

Focusing on the transformation to industrial capitalism, this course explores the major developments in American history from the end of Reconstruction to the beginning of World War II. Students examine the Gilded Age, progressivism, World War I, prosperity and nativism in the 1920s, the Great Depression and the New Deal, and the coming of war in Europe and Asia.

HST 359. THE UNITED STATES SINCE 1940: RECENT AMERICAN HISTORY 4 sh

This study of recent American history is organized around four major themes: America in World War II, America's obsession with stopping the spread of Communism, the tumultuous social movements of the 1960s and the disillusionment caused by Vietnam and Watergate. Class discussions center on how these events continue to affect American institutions.

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HST 361. NORTH CAROLINA IN THE NATION 4 sh

This course traces N.C. history from the first European contact to the present in the wider context of U.S. history. Topics include: N.C. as a microcosm of the region and nation; Reconstruction and the New Deal; and N.C. political, economic, social and geographical features as related to national trends. Discussion also covers how family and community history are preserved and how the study of local history can enhance public understanding of national events.

HST 362. THE SOUTH IN AMERICAN HISTORY: REGIONAL SUBCULTURAL PERSISTENCE 4 sh

This course examines the South (especially post-Civil War) as a distinctive region of the U.S., including reasons for such distinctiveness and its impact on the nation's history.

HST 363. AFRICAN-AMERICAN HISTORY, 1850-PRESENT 4 sh

Beginning with the slave system in the mid-19th century, this course examines recurring issues and problems in African-American history through the post-Civil Rights era. Study focuses on three themes: the similarity and differences of African-American experiences; the extent to which they were oppressed yet also had choices; and their strategies to cope with their social and political situations.

HST 364. HISTORY OF WOMEN IN THE U.S.**4 sh**

This course surveys the experiences of women in the U.S., emphasizing their changing political and economic status and gender role expectations. Topics focus on the historical factors — politics, war, social movements, technology and ideology — that caused such changes, strategies women utilized to change or cope with their situations, and differences among women.

HST 365. SOCIAL MOVEMENTS IN POST-CIVIL WAR AMERICA**4 sh**

This course covers organized efforts to change American society since Reconstruction, including social movements from Populism in the late 1800s to the Civil Rights movement in the 1960s and the responses to these movements.

HST 367. AMERICAN MILITARY HISTORY THROUGH 1865**2 sh**

Focus is on the impact of the American Revolution on the evolution of the Army and Navy, the relationship between military power and a growing sense of nationhood and the American Civil War. Students will explore causes of military conflicts, the strategy and tactics of campaigns and the impact of the resolution of these conflicts.

HST 368. AMERICAN MILITARY HISTORY SINCE 1865**2 sh**

This course analyzes military power as a component of foreign policy. Students concentrate on America's shift from an isolationist nation to a major world power by examining the Spanish-American War, World War I, World War II, the Korean Conflict, Vietnam and recent engagements.

HST 369. AMERICAN INDIAN HISTORY**4 sh**

Stressing the active role that Indian people have taken in the creation of their own history, this course focuses on complicated cultural and historic realities. Topics include pre-Columbian Indian societies, cultural adaptation, removal, the Reservation Age, resistance movements, the Indian New Deal, postwar activism and cultural revitalization.

HST 460-469. SEMINAR: SPECIAL TOPICS**4 sh**

A capstone experience for majors, this course offers students practical experience in researching, writing and presenting a senior thesis. Past topics have included the Holocaust, American Indian Religion, Nazi Germany, Human Rights in Latin America, Gender and Sexuality in American History and Twentieth Century Europe. Prerequisite: HST 301 or permission of the instructor. Offered fall and spring.

HST 481. INTERNSHIP IN HISTORY**2-4 sh**

Designed to provide students with practical experience in history-related professions, activities included in the internship enable students to explore careers in archives, record management, historic sites, museum administration, etc. Prerequisite: 18 semester hours of history.

HST 491. INDEPENDENT STUDY**2-4 sh**

Open to junior/senior majors/minors or others with permission of instructor.

HST 499. RESEARCH IN HISTORY**1-4 sh**

Open to junior/senior majors/minors or others with permission. In conjunction with a faculty mentor, the student will formulate and execute an original research project that will culminate in a formal presentation. A research proposal form completed by the student and faculty mentor is required for registration.

Human Services

Chair, Department of Human Services: Professor Kiser
 Assistant Professors: Esposito, Fair, Glass, Warner, Wasik
 Adjuncts: Felts, Gumm

The Human Services major prepares students to work as practitioners in a variety of professional service settings such as social services, mental health, family services, corrections, gerontology, child care, youth programs, group homes and many others. The Human Services curriculum guides the student through gaining the knowledge, skills and experience necessary to work effectively with a variety of populations.

Students engage in extensive fieldwork in Human Service agencies as part of their studies. Through the classroom and field components of the major, students examine critically a range of human and societal problems and the programs and services designed to address them, acquiring an understanding of the societal, cultural and personal variables which contribute to the development of human problems and to their solution.

The Human Services major draws upon knowledge in the social sciences, especially psychology and sociology, and emphasizes the application of this knowledge to the improvement of human life and society. In order to apply this knowledge effectively, students develop a variety of skills including those involved in oral and written communication, problem solving, developing professional helping relationships, organization and administration.

A major in Human Services requires the following courses:

HUS 111	Introduction to Human Services/ELR	4 sh
PSY 111	General Psychology	4 sh
SOC 111	Introductory Sociology	4 sh
HUS 212	Counseling Individuals & Families	4 sh
HUS 213	Counseling Groups & Communities	4 sh
HUS 285	Research Methods	4 sh
HUS 381	Practicum in Human Services	4 sh
HUS 411	Administration of Human Service Agencies	4 sh
HUS 412	Professional Communication	4 sh
HUS 461	Senior Seminar	4 sh
HUS 481	Internship in Human Services	8 sh
Eight semester hours selected from four hour Human Services courses		8 sh

TOTAL		56 sh
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Prior to taking HUS 381 students must be approved by the Human Services department. A minimum grade point average of 2.1 is required to be eligible for Practicum.

Most of the other major requirements must be completed prior to taking HUS 481. Students who enroll in HUS 481 may not take any courses other than the prescribed block courses. A minimum grade point average of 2.2 is required to be eligible for Internship. Applications for both Practicum and Internship must be completed by May 1 in order to enroll in these courses the following year. Applications are available in the office of the department chair.

A minor in Human Services requires the following courses:

HUS 111	Introduction to Human Services/ELR	4 sh
HUS 381	Practicum in Human Services	4 sh
One course from the following:		4 sh
PSY 111	General Psychology	
SOC 111	Introductory Sociology	
One course from the following:		4 sh
HUS 212	Counseling Individuals & Families	
HUS 213	Counseling Groups & Communities	
Four semester hours Human Services course		4 sh
TOTAL		20 sh

HUS 101. LEADERSHIP **2 sh**

This course combines study and practical experience to increase knowledge and skills in leadership development and is appropriate for both emerging and established leaders. No credit toward Human Services major.

HUS 102. PEER COUNSELING **2 sh**

In this study/practical experience course students develop skills in interpersonal relations, gain an understanding of personal and community problems and learn to view the residence hall as a community. Required of all Resident Assistants. No credit toward Human Services major.

HUS 111. INTRODUCTION TO HUMAN SERVICES/ELR **4 sh**

This course explores the history and values of the Human Services profession, examines theoretical approaches to Human Services work, provides an overview of the Human Services system in the United States and acquaints students with the roles and responsibilities of Human Services professionals. A minimum of 40 hours of field work in an approved Human Services setting is required. Meets ELR. Offered fall and spring.

HUS 212. COUNSELING INDIVIDUALS AND FAMILIES **4 sh**

This course examines various theories and methods used in helping families and individuals resolve problems. Students gain skills in applying these theories and methods through use of case studies, role playing, simulations and other experimental methods. Prerequisite: HUS 111 or PSY 111.

HUS 213. COUNSELING GROUPS AND COMMUNITIES **4 sh**

Students will examine the role and history of working with groups and communities in the Human Services system. Theories and methods used in working with groups and communities will also be studied. Topics addressed in the course include group dynamics and group development as well as leadership models and approaches. Students will gain skills in working with groups and communities through the use of case studies, simulations, role playing and other experiential methods. Prerequisite: HUS 111 or SOC 111.

HUS 285. RESEARCH METHODS IN HUMAN SERVICES **4 sh**

This course examines the methods used to conduct basic social science research. Emphasis is placed on the use of research in practice-related settings. The course acquaints students with a basic theoretical understanding of research, practical aspects of research and ethical and diversity considerations inherent in the proper implementation of research. Offered spring.

HUS 311. POVERTY AND SOCIAL WELFARE POLICY **4 sh**

Poverty is a core issue which underlies many social and human problems in the United States. This course will examine the social welfare system in the United States and the

history and process of policy-making around this issue. Alternative approaches to understanding and resolving the problem of poverty will also be explored. Emphasis will be placed on the role of the Human Services worker in policy-making processes.

HUS 312. HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT 4 sh

This course explores theoretical and empirical knowledge of human behavior and the social environment as a foundation for Human Services delivery to individuals, families, groups and communities. Emphasis is placed on life transitions and on the diverse social conditions and contexts that may support or inhibit human development and functioning. Factors such as race and ethnicity, gender, sexual orientation, disability, socioeconomic status and rural/urban differences are explored as they impact human behavior and human development. The course focuses on the application of this knowledge through the use of case studies and other methods.

HUS 321. GROUP DYNAMICS AND LEADERSHIP 4 sh

Students explore group dynamics, group structure, leadership and the group worker role and are encouraged to examine and refine their own group communication and leadership skills. Prerequisite: HUS 213.

HUS 324. PERSPECTIVES AND ISSUES IN AGING 4 sh

This introduction to gerontology explores the biological, sociological and psychological aspects of aging and presents cultural, economic and political issues related to aging such as ageism, retirement, living environments, the social security and health care issues.

HUS 326. SPECIAL POPULATIONS IN HUMAN SERVICES 4 sh

This course explores specific populations of Human Services clients such as persons with disabilities, children at risk, persons with HIV/AIDS, persons with terminal illnesses, etc. Needs of the particular populations under study are explored as well as programs, services and innovations in service provision. Specific populations studied vary based on current trends and issues in the field.

HUS 331. PRINCIPLES OF COUNSELING 4 sh

This course focuses on the theories and methods used in counseling individuals. The course is designed for persons who will work in the helping professions and includes role playing, videotaping and working with case material. Prerequisite: HUS 212.

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HUS 341. FAMILY COUNSELING 4 sh

This course focuses on family assessment and intervention using systems theory as the primary conceptual model and emphasizes the use of family counseling concepts to understand family dynamics and relationships. Students make extensive use of case material and role play to apply theory to practice. Prerequisite: HUS 212.

HUS 349. VIOLENCE IN FAMILIES 4 sh

This course explores various forms of violence in families including violence between spouses/partners, violence directed toward the elderly, violence between siblings and violence of parents toward children. Factors contributing to violence in families are discussed as well as methods of preventing and/or ameliorating patterns of violence within families. Students in this course develop an understanding of the reciprocal relationship between families and society by exploring how violence in families contributes toward societal violence as well as how family patterns are influenced by the values and attitudes of the larger society.

HUS 359. CRIMINAL JUSTICE 4 sh

The field of Criminal Justice is examined in terms of three interdependent subsystems: law enforcement, corrections and the courts. Both theoretical models and practical applications will be used to encourage a broad understanding of the criminal justice system as a whole.

HUS 361. SUBSTANCE ABUSE: ISSUES IN TREATMENT**4 sh**

Students become familiar with the contemporary theories and knowledge base concerning substance abuse. The course examines therapeutic issues involved in the treatment of substance-abusing persons and their families and reviews various types of treatment interventions. The course addresses innovative treatment modalities as well as the lack of sufficient and appropriate rehabilitative services to meet the needs of various special populations.

HUS 369. JUVENILE JUSTICE**4 sh**

This course examines the juvenile justice system, including a number of agencies which have jurisdiction over a juvenile from birth to the age of majority. System components included in this course are the social services, law enforcement, juvenile court and corrections. Ancillary and supportive services such as mental health, school systems, child advocacy groups and guardian ad litem programs are also explored.

HUS 371-3. TOPICS IN HUMAN SERVICES**4 sh**

Students examine special topics in Human Services, such as developmental disabilities, mental health issues and services, family violence, etc.

HUS 381. PRACTICUM IN HUMAN SERVICES**4 sh**

Students gain field experience in a Human Services organization observing and learning the roles, tasks, skills and methods of Human Services professionals in the assigned setting and becoming familiar with administrative processes in the organization (full-time for at least three weeks). Conferences with the supervising faculty member and the agency supervisor, assigned readings and various writing assignments provide further learning opportunities. Prerequisites: HUS 111, 2.1 GPA, status as a declared Human Services major or minor, and approval of application for practicum. Offered winter.

HUS 411. ADMINISTRATION OF HUMAN SERVICES AGENCIES**4 sh**

This overview of principles and techniques of leadership and management in Human Services agencies exposes students to planning, organizing, staffing and financing a project or an agency and working with a Board of Directors and the community. Senior Block Course. Prerequisites: HUS 111, 381. Offered fall and spring.

HUS 412. PROFESSIONAL COMMUNICATION**4 sh**

This course provides an in-depth study of interpersonal communication skills and writing skills essential to the Human Services worker, emphasizing the further development of written and oral communication skills. Special emphasis in this course is placed on cross-cultural communications within helping relationships. Senior Block Course. Prerequisites: HUS 111, 381. Offered fall and spring.

HUS 461. SENIOR SEMINAR**4 sh**

In this capstone course, students analyze their personal and professional development during their university experience and are required to research, write and present a scholarly paper. Prerequisites: senior majors, HUS 285. Offered fall and spring.

HUS 481. INTERNSHIP IN HUMAN SERVICES**8 sh**

Students participate in full-time, field-based experience in a Human Services agency for eight weeks, observing and practicing the roles, tasks and skills of Human Services professionals under the supervision of a faculty member and an agency supervisor. Conferences with both supervisors and assigned papers and readings enhance learning as the student connects theory and practice through work in the field. Prerequisites: 2.2 GPA, senior majors, HUS 381, 411 and 412. Offered fall and spring.

HUS 499. INDEPENDENT RESEARCH IN HUMAN SERVICES**1-8 sh**

Students engage in independent research projects related to the field of Human Services. Research is conducted under the supervision of Human Services faculty. Prerequisites: junior or senior status and departmental approval, HUS 285.

Independent Major

Coordinator: Associate Professor Braye, Director of General Studies

Students with intellectual and professional interests which cannot be met by other major and minor programs may create an independent major. Independent majors are interdisciplinary in nature and are suitable for highly motivated students willing to assume exceptional responsibility for their own education. Students must have a GPA of at least 3.0 and no more than 66 completed semester hours when applying. Advice from the Director of General Studies may be helpful in designing an independent major. Details concerning final approval for an independent major may be obtained in the office of the Director of General Studies.

An Independent Major requires the following:

1. An Application for Independent Major, available from the Director of General Studies, must be completed before the student has earned 66 semester hours. This application also outlines the procedure to be followed for designing and declaring the Independent Major.
2. An interdisciplinary committee of three professors, including one designated as the principal advisor, must be assembled.
3. A curriculum must be designed with help from the committee. That curriculum must include the completion of the General Studies requirements.

An Independent Major includes:

- a minimum of 48 semester hours
- a minimum of 28 semester hours at the 300–400 level
- a capstone seminar
- a capstone interdisciplinary project
- a plan for assessing the completed major

The independent major courses must come from at least three departments, and no more than half may be from any one department. Upper-level courses taken to satisfy the requirements of an independent major will also satisfy the eight-hour advanced studies requirement when the independent major includes at least 12 hours of upper-level courses in three departments and at least two of the four areas listed under Studies in Arts and Sciences. Students completing an independent major which designates an advanced GST Seminar as the capstone seminar must take another GST Seminar to fulfill the General Studies requirements.

No more than four semester hours of independent study may be included. This will usually be used for completion of the capstone interdisciplinary project.

International Studies

Coordinator: Professor Digre
Program Faculty: Professors: C. Brumbaugh, W. Rich
Associate Professors: Chakrabarti, Romer, Roselle
Assistant Professors: J. Das, Smith-Nonini

The International Studies major provides students with an interdisciplinary program through which they can gain a broad knowledge of international affairs as well as expertise on one of the world's regions. Study abroad experiences and foreign language study form integral parts of the program. Students, with the support of their advisors, have considerable freedom in designing their own program of study.

The major may form an attractive double major for students from a variety of disciplines, such as political science, history and foreign languages. It also might be profitably combined with a business minor. It should provide an educational background for those seeking international affairs careers in government, nongovernmental organizations (development/humanitarian), travel and business.

Students are required to include a study abroad experience in their programs. Students should choose an area relevant to their regional concentrations (see below). International (foreign) students at Elon satisfy this requirement due to the inherent cross-cultural character of their college education. Under specified provisions of the program, up to 16 credit hours of foreign study can be counted toward the major.

A major in International Studies requires 44 semester hours. These requirements are specified as follows:

Foundation Courses	8 sh
POL/INT 141	International Relations
HST/INT 221	World in the Twentieth Century

Foreign Language Study	8 sh
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Students will take at least eight hours of study at any level in one modern foreign language. Students must also demonstrate foreign language proficiency by successful completion of a foreign language course at the 221 level (or its equivalent). Students should choose a language relevant to their regional concentrations.

Global Studies	12 sh
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Students must take courses from at least two of the following five areas. Appropriate special topics courses, as approved by the program coordinator, may be included in the global studies category.

Politics and Economics

BUS 416	Global Marketing
BUS 430	International Business Management
ECO 201	Principles of Economics/INT (taught from an international perspective)
ECO 314	International Trade and Finance
POL 114	Model United Nations
POL 261	Comparative Politics
POL 342	U.S. Foreign Policy
POL 343	International Law and Organizations

- POL 344 International Environmental Policy
- POL 345 International Terrorism
- POL 359 Political Communication

History and Geography

- GEO 131 The World's Regions
- HST 112 Europe and the Mediterranean World Since 1660
- GEO 310 Development and the Environment in Latin America, Africa and South Asia

Literature and Foreign Language

- ENG 231 World Literature
- ENG 331 Advanced World Literature
- Foreign languages 221, 321, 322 relevant to student's regional concentration

Society and Culture

- PSY 366 Psychology in Cultural Context
- REL 121 World Religions
- SOC 112 Introduction to Cultural Anthropology
- SOC 121 Cross Cultural Encounters
- SOC 322 Ethnography
- SOC 328 Culture and the Modern World

Study Abroad

Students who have study abroad course credit that cannot be counted under Foreign Language Study or regional concentration may count four semester hours under this category.

Regional Concentration

12 sh

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At least three courses taken on one geographic region. Courses should be chosen from at least two disciplines. Study abroad and special topics courses, as approved by the program coordinator, may be included under the regional concentration.

Approved courses for regional concentrations in Africa, the Asian/Pacific area, Europe and Latin America are listed below. In addition, special area concentrations designed by student and advisor may be approved by the program coordinator.

Africa

- ART 341 African Art
- ENG 338 The African Experience in Literature
- FRE 362 Francophone Cultures Outside France
- GEO 320 Geography of Africa
- HST 313 Modern Africa
- HST 314 A History of Southern Africa
- JCM 346 African Film
- POL 367 Politics of Africa

Asian/Pacific

- ENG 337 Asian Literature of Social Change
- ENS 310 Environmental Issues of Southeast Asia
- HST 320 China, Japan and the Pacific Century
- PHL 352 Eastern Philosophy
- POL 363 Politics of Asia

POL 365	Politics of Eurasia
REL 353	Buddhism
REL 356	Hinduism
SOC 329	Peoples and Cultures of Southeast Asia
SOC 344	Sociocultural Change in India

Europe

ENG 222	British Literature II
ENG 325	Romanticism
ENG 326	Realism and the Later 19th Century
ENG 356	The Novel: British Women Writers
FRE 332	Introduction to French Literature II
FRE 361	French Civilization
HST 316	The History of Imperial Russia to 1917
HST 317	Russia and the Soviet Union since 1917
HST 324	England within the British Empire
HST 326	History of Ireland
HST 327	History of Scotland
HST 335	Growth of Modern Europe
HST 336	Europe, 1914-1945
HST 337	Europe, 1945 to the Present
HST 338	Germany, Democracy and Hitler, 1914-1945
HST 339	A History of the Holocaust
PHL 433	Marx, Darwin and Freud
POL 364	Politics of Europe
POL 365	Politics of Eurasia
POL 428	Comparative Public Policy
SPN 332	Spanish Literature II
SPN 361	Spanish Civilization

Latin America

ENG 335	Latin American Literature and Culture
GEO 342	Gender and Environment in South America
HST 341	Modern Central American History
HST 350	History of Brazil
HST 351	History of Mexico
HST 353	Colonial Latin America
HST 354	Modern Latin America
POL 368	Latin American Politics
SOC 363	Latin American Social Movements
SOC 364	Inequality and Development in Latin America
SPN 341	Latin American Literature I: Discovery Conquest, Colonial Era and Independence
SPN 342	Latin American Literature II: from Modernism to Magic Realism
SPN 362	Latin American Civilization

Senior Seminar

INT 461	Senior Seminar in International Studies
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4 sh

TOTAL**44 sh**

A minor in International Studies requires the following:

POL/INT 141 International Relations 4 sh

HST/INT 221 The World in the Twentieth Century 4 sh

Twelve semester hours based on the program of study for the international studies major 12 sh

Choose one of the following options:

a. A Regional Concentration

b. The Global Studies Field

c. Foreign language study (8 semester hours) plus one elective selected from courses approved for the major

TOTAL 20 sh

Students are strongly encouraged to include a study abroad experience.

INT 221. THE WORLD IN THE TWENTIETH CENTURY 4 sh

(Cross-listed with HST 221. See HST 221 for description.)

INT 141. INTERNATIONAL RELATIONS 4 sh

(Cross-listed with POL 141. See POL 141 for description.)

INT 461. SENIOR SEMINAR 4 sh

The senior seminar is a capstone experience designed for majors. This course offers practical experience in researching, writing and presenting a senior thesis which builds on previous work in global studies and the regional concentration.

INT 481. INTERNSHIP IN INTERNATIONAL STUDIES 2-4 sh

Designed to provide students with opportunities to work in professional positions related to international affairs. Internships are intended to provide practical experience for future careers in government, nongovernmental organizations (development/humanitarian) and business. They may be arranged both in the United States and overseas. Prerequisite: permission of program coordinator.

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INT 491. INDEPENDENT STUDY 2-4 sh

Open to junior or senior majors with permission of instructor.

INT 499. RESEARCH 1-4 sh

Designed to allow students the opportunity to engage in an empirical or theoretical study in collaboration with a faculty member. Research projects may include reviewing relevant literature, developing a research design, data collection, analysis and presentation of findings. This may also include a presentation to the International Studies faculty and/or a SURF presentation. Prerequisite: permission of program coordinator.

Journalism and Communications

Dean, School of Communications: Professor Parsons

Associate Dean, School of Communications: Associate Professor Hamm

Chair, Department of Communications: Associate Professor Grady

Associate Professors: Book, Copeland, Costello, Guiniven, Hatcher, B. Lee, Padgett, Ward-Johnson

Assistant Professors: J. Anderson, Barnett, Book, Burns, Duvall, Eke, Frontani, Fulkerson,

Gibson, Gisclair, W. Johnson, Makemson, Min, T. Nelson, Skube

Instructors: Lashley, Loomis, Saltz, Sen

Adjuncts: Childers, Fox, Hatch

The words *communications* and *community* come from the same linguistic root. A democratic community is built through freely and accurately telling citizens about the world they live in. As a result, communications is essential for people to stay in touch with each other and with government, business and other institutions in society.

The School of Communications prepares students for careers in journalism and Web publishing, broadcasting and new media, public relations and corporate communications, and cinema.

The School offers two majors: Journalism and Communications (the latter with three emphases: Broadcast and New Media, Corporate Communications, and Cinema).

The curriculum has several important themes: We live in a global world, we live in a digital world, and students should reflect the highest ideals of their disciplines, such as serving the public good and promoting citizenship in a democracy. These themes are integrated into a curriculum that emphasizes writing, research and analytical thinking. While technology is important, the School's overarching emphasis is on the content of ideas and information.

Students complement in-class work with involvement in campus media including the campus newspaper *The Pendulum* and Pendulum Online, WSOE-FM and Elon Student Television (ESTV).

A broad university education prepares students to be knowledgeable people in a complicated world, and the School's curriculum provides the concepts and skills to succeed in a chosen career. About half of the School's graduates go directly into media and communications careers. The other half find that having communications expertise prepares them well for graduate school, law school, business opportunities and public service.

For all Journalism and Communications majors:

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ACCREDITATION RULE. All students must complete at least 80 credit hours outside the School of Communications, with 65 or more of those hours in the liberal arts and sciences.

REQUIRED INTERNSHIP OR WORK EXPERIENCE. All students must complete a supervised internship or professional work experience in communications. Students seeking academic credit enroll in JCM 381 Communications Internship for 1, 2, 3, or 4 credit hours, based on 80 work-hours per credit hour. Or students can independently arrange, in accordance with School guidelines, their own non-credit professional work experience of at least 80 work-hours. The School verifies that the work experience was satisfactorily completed. (Credit earned through COE Co-op Work Experiences cannot count toward the major or toward the 80 hours required outside the School of Communications.)

DOUBLE MAJOR. To encourage students to develop a second area of academic depth, the School of Communications waives 8 hours of JCM electives for any student completing a double major outside the School. For example, a student majoring in both Journalism and History would need to complete Journalism requirements and only 44 JCM hours instead of the normal 52 hours.

A major in Journalism requires the following courses:

JCM 200	Communications in a Global Society	4 sh
JCM 218	Media Writing	4 sh
JCM 220	Digital Media Convergence	4 sh
JCM 300	Reporting for the Public Good	4 sh

JCM 325	Editing and Design	4 sh
JCM 360	Media History	4 sh
JCM 364	Web Publishing and Design	4 sh
JCM 381	Communications Internship Work Experience in Communications (non-credit)	1-4 sh or
JCM 395	Media Law and Ethics	4 sh
JCM 495	Great Ideas: Capstone in Communications	4 sh
At least one course selected from:		4 sh
JCM 330	Broadcast Journalism	
JCM 334	Communications Research	
JCM 338	Magazine Publishing	
JCM 425	Investigative Reporting	

Choice of additional JCM courses to total at least 52 hours in the School of Communications (8 hours of JCM electives are waived for any student completing a double major outside the School)

TOTAL	52 sh
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A major in Communications/Broadcast and New Media requires the following courses:

JCM 200	Communications in a Global Society	4 sh
JCM 218	Media Writing	4 sh
JCM 220	Digital Media Convergence	4 sh
JCM 302	Broadcasting in the Public Interest	4 sh
JCM 322	Writing for Electronic Media	4 sh
JCM 360	Media History	4 sh
JCM 366	Television Production	4 sh
JCM 381	Communications Internship Work Experience in Communications (non-credit)	1-4 sh or
JCM 395	Media Law and Ethics	4 sh
JCM 495	Great Ideas: Capstone in Communications	4 sh
At least one course selected from:		4 sh
JCM 330	Broadcast Journalism	
JCM 334	Communications Research	
JCM 340	Audio Production	
JCM 345	The Art of Film and Video Editing	
JCM 350	Broadcast Performance	

Choice of additional JCM courses to total at least 52 hours in the School of Communications (8 hours of JCM electives are waived for any student completing a double major outside the School)

TOTAL	52 sh
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A major in Communications/Corporate requires the following courses:

JCM 200	Communications in a Global Society	4 sh
JCM 211	Professional Speaking and Rhetoric	4 sh
JCM 218	Media Writing	4 sh
JCM 220	Digital Media Convergence	4 sh

JCM 304	Public Relations and Corporate Citizenship	4 sh
JCM 327	Corporate Publishing and Writing	4 sh
JCM 334	Communications Research	4 sh
JCM 352	Corporate Video	4 sh
JCM 381	Communications Internship Work Experience in Communications (non-credit)	1-4 sh or
JCM 395	Media Law and Ethics	4 sh
JCM 495	Great Ideas: Capstone in Communications	4 sh
Choice of additional JCM courses to total at least 52 hours in the School of Communications (8 hours of JCM electives are waived for any student completing a double major outside the School)		
In addition, at least one School of Business course selected from:		4 sh
ECO 201	Principles of Economics	
BUS 303	Introduction to Management	
BUS 304	Introduction to Marketing	
ACC 201	Principles of Financial Accounting	
FIN 303	Introduction to Finance	
TOTAL		56 sh

A major in Communications/Cinema requires the following courses:

JCM 200	Communications in a Global Society	4 sh
JCM 218	Media Writing	4 sh
JCM 220	Digital Media Convergence	4 sh
JCM 306	Development and Social Influence of Cinema	4 sh
JCM 342	Film Theory and Analysis	4 sh
JCM 358	Film Production	4 sh
JCM 368	The Documentary	4 sh
JCM 381	Communications Internship Work Experience in Communications (non-credit)	1-4 sh or
JCM 395	Media Law and Ethics	4 sh
JCM 495	Great Ideas: Capstone in Communications	4 sh
At least one course selected from:		4 sh
JCM 344	Screenwriting	
JCM 345	The Art of Film and Video Editing	
JCM 367	Film Aesthetics and Design	
JCM 369	The Auteur Director	

Choice of additional JCM courses to total at least 52 hours in the School of Communications (8 hours of JCM electives are waived for any student completing a double major outside the School)

TOTAL	52 sh
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A minor in Communications requires the following courses:

JCM 200	Communications in a Global Society	4 sh
JCM 211	Professional Speaking and Rhetoric	4 sh

JCM 218 Media Writing	4 sh
Twelve hours of JCM elective at the 200–400 level	12 sh
TOTAL	24 sh

A minor in Cinema requires the following:

JCM 306 Development and Social Influence of Cinema	4 sh
Choose an additional 16 hours from the following:	16 sh

- JCM 344 Screenwriting
- JCM 346 African Film
- JCM 349 The South in Film
- JCM 369 The Auteur Director

JCM 371 Special Topics (in cinema)

or these JCM courses with prerequisites:

- JCM 342 Film Theory and Analysis
- JCM 345 The Art of Film and Video Editing
- JCM 358 Film Production
- JCM 367 Film Aesthetics and Design
- JCM 368 The Documentary

or film courses offered in GST and other disciplines,
with prior approval of the dean's office.

TOTAL	20 sh
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JCM 200. COMMUNICATIONS IN A GLOBAL SOCIETY 4 sh

Contemporary mass media play a vital role in society, both locally and globally. In this course, students study the importance of books, magazines, newspapers, recordings, movies, radio, television and the Internet, and the messages carried through news, public relations and advertising. The course emphasizes the relationship of media and democracy, theories related to media effects, the diversity of audiences and the global impact of communications.

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JCM 210. PUBLIC SPEAKING 2 sh

Students learn principles for speaking in public settings, with significant in-class presentation and out-of-class topical research. The course focuses on the structure and effective delivery of ideas, use of language, supporting evidence, reasoning and emotional appeals, diction, pronunciation and nonverbal communication. Credit not given in the major for both JCM 210 and 211.

JCM 211. PROFESSIONAL SPEAKING AND RHETORIC 4 sh

Students learn principles for speaking in both public and organizational settings, with significant in-class presentation and out-of-class topical research and rhetorical analysis. The course focuses on the structure and effective delivery of ideas, use of language, supporting evidence, reasoning and emotional appeals, diction, pronunciation and nonverbal communication. Introduces ancient Greek and modern American rhetorical examples. Credit not given in the major for both JCM 210 and 211.

JCM 218. MEDIA WRITING 4 sh

Clear, logical writing is necessary to communicate effectively to an audience. This course focuses on background research, interviews, accuracy, attribution and styles of writing (print, broadcast, online, news releases). Superior grammar and language skills are required through passage of an exam, and Associated Press style is introduced along with an understanding of diversity issues. Students also write a research paper on a communications topic. Prerequisite: C- or better in ENG 110.

JCM 220. DIGITAL MEDIA CONVERGENCE**4 sh**

Convergence is the blending of text, sounds and images in the media environment to create new media. This course features units on visual literacy, photo editing, audio processing, video editing and Web publishing. Students learn theories of aural and visual aesthetics and produce individual Web pages. Prerequisite: C- or better in both JCM 200 and 218.

JCM 235. INTERPERSONAL COMMUNICATION**2 sh**

Interpersonal relationships can be enhanced through the acquisition and development of communication skills. Topics include self-concept, perception, conversation skills and conflict resolution.

JCM 237. SMALL GROUP COMMUNICATIONS**2 sh**

The effectiveness of small-group communications can be enhanced through the acquisition and development of skills related to committee, team and work-group processes.

JCM 251. COMMUNICATIONS STUDIES ABROAD**4 sh**

Students who study abroad can earn credit for specialized study on a communications topic.

JCM 300. REPORTING FOR THE PUBLIC GOOD**4 sh**

Students focus on gathering and writing news that is accurate, logical and compelling. This course analyzes good writing by professional journalists and teaches the importance of the sound and sense of words. Students discuss concepts such as civic journalism, the watchdog function of the news media, ethical practice and journalism's role in serving the public good in a democracy. Prerequisite: C- or better in both JCM 200 and 218.

JCM 302. BROADCASTING IN THE PUBLIC INTEREST**4 sh**

Broadcasting was conceived and is regulated to serve the public interest. This course provides a philosophical, historical, technological and social overview of the broadcast and electronic media industries. It focuses on broadcast economics, management, audience analysis, programming, media effects, governmental policy and FCC regulation in the public interest. Prerequisite: C- or better in both JCM 200 and 218.

JCM 304. PUBLIC RELATIONS AND CORPORATE CITIZENSHIP**4 sh**

Public relations is the bridge between an organization and its many publics. This course emphasizes the theories, strategies and techniques in organizational environments (corporate, not-for-profit, associations, agencies, government) and studies historical roots, formation of public opinion, crisis management, marketing and the ethical requirements to be a responsible corporate citizen. Prerequisite: C- or better in both JCM 200 and 218.

JCM 306. DEVELOPMENT AND SOCIAL INFLUENCE OF CINEMA**4 sh**

The cinema has a rich history as an art form, from silent films to today. This course explores the social influence of cinema, both American and international. Students will analyze cinema as a business enterprise and entertainment medium as well as an art form.

JCM 311. INTERNATIONAL COMMUNICATIONS**4 sh**

Media systems differ substantially in the Americas, Europe, Asia, Africa and the rest of the world. In this course, students examine the media systems of many countries, stressing the chief problems of communications across cultural, economic, sociological and political barriers. Prerequisite: junior standing.

JCM 315. MEDIA AND CULTURE**4 sh**

The media shape American culture, and culture, in turn, shapes the media. This course considers media as a ritual of every-day culture and maps the uneasy and parallel developments of consumer culture and democratic society.

JCM 316. POLITICS IN MASS MEDIA**4 sh**

The media have a tremendous effect on the American political system in terms of news coverage, candidate visibility, political messages and the creation of public opinion. This course traces the evolution of media impact to the present day.

JCM 317. RELIGION AND MEDIA**4 sh**

Religion and media are two powerful influences in society. This course analyzes how they intersect through news coverage of religious issues and the presentation of religious themes in the entertainment media. Topics include the history of religious communication, covering religion as news, religion's use of television and the Internet, religious messages in movies and media portrayals of religious people and traditions. Prerequisite: REL 121 or 134.

JCM 318. ORGANIZATIONAL COMMUNICATIONS**4 sh**

Every organization has its own internal patterns and practices of communication. This course addresses the theories and workplace issues related to culture, teams, interpersonal relations and organizational strategy. Students analyze global, technological and ethical dimensions of communication in organizations.

JCM 322. WRITING FOR ELECTRONIC MEDIA**4 sh**

Writing for radio, television and other electronic media has its own style, form and content approaches. Students focus on writing news, commercials, public service announcements and other copy for the ear. This course teaches the importance of the sound and sense of words, and students discuss contemporary issues. Prerequisite: C- or better in both JCM 200 and 218.

JCM 325. EDITING AND DESIGN**4 sh**

Precision in word usage and style and an aesthetic sense of design are valuable in publications. Students practice crafting content, editing copy, writing headlines, using photos and graphics, writing captions and designing pages. Prerequisite: C- or better in both JCM 200 and 218.

JCM 326. FEATURE WRITING**4 sh**

Students in this course study writing styles and write feature articles for newspapers and magazines. The course applies techniques of fiction such as narrative, characterization, dialogue and scenes to nonfiction writing. Prerequisite: C- or better in JCM 218.

JCM 327. CORPORATE PUBLISHING AND WRITING**4 sh**

Print and Web media (publications, public relations, advertising and the Internet) are used to communicate with internal and external publics. This course emphasizes effective writing for corporate purposes and effective visual design. Prerequisite: JCM 220.

JCM 330. BROADCAST JOURNALISM**4 sh**

Students report, write, edit and produce local news, commentary and sports coverage. They also analyze good broadcast journalism, audience research, effects research and production. Prerequisite: JCM 220 and either 300 or 322.

JCM 334. COMMUNICATIONS RESEARCH**4 sh**

Theoretical and methodological knowledge is necessary to properly conduct and apply mass communication research. This course explores public opinion polling, marketing research and qualitative methods, and highlights surveys, content analysis, focus groups and audience analysis. Prerequisite: JCM 300, 302, 304 or 306.

JCM 338. MAGAZINE PUBLISHING**4 sh**

This course examines the magazine publishing industry from its origins to today. Students explore industry trends toward specialization and magazine publishing processes including concept, planning, writing, editing, advertising, production, promotion and distribution of a finished product.

JCM 340. AUDIO PRODUCTION**4 sh**

Sound is an important element in media communications. This course analyzes production techniques applicable in radio, television, cinema and online (editing, music and sound effects, signal processing and multi-channel production). Students learn studio operation, producing, writing and performing. Prerequisite: JCM 220.

JCM 342. FILM THEORY AND ANALYSIS**4 sh**

This course surveys classical and contemporary film theory. Students study critical approaches to the study of film including formalism, realism and expressionism. This is an intensive writing course in film theory and criticism, including film reviews. Prerequisite: C- or better in both JCM 200 and 218.

JCM 344. SCREENWRITING**4 sh**

Writing for the cinema requires plot development, narrative, characterization, dialogue and scenes. This course explores film formats such as drama, comedy and documentary. Students write scripts of varied lengths. Prerequisite: C- or better in ENG 110.

JCM 345. THE ART OF FILM AND VIDEO EDITING**4 sh**

Students study film and video editing with an emphasis on the art of montage. The course examines the historical and theoretical evolution of editing, and students complete projects using computer-based editing systems. Prerequisite: JCM 220.

JCM 346. AFRICAN FILM**4 sh**

Students examine films produced in Africa and study the "language" created by African cinema. The course concentrates on the history of the continent and the problems of tradition versus modernity as expressed in African film.

JCM 349. THE SOUTH IN FILM**4 sh**

The American South has been a focal point of film through the years. Each work is studied from two viewpoints: the time of the film (historical setting) and the time of the filming (historical context). The course shows how the South and its historical stereotypes have been portrayed to the world and to Southerners themselves.

180 JCM 350. BROADCAST PERFORMANCE**4 sh**

This course emphasizes effective presentation of ideas and information on radio and television. Students focus on vocal and visual presentation, voice and diction, pronunciation, appearance, gestures and movement. Prerequisite: JCM 220.

JCM 352. CORPORATE VIDEO**4 sh**

Broadcast media are used to communicate with internal and external publics. This course emphasizes achieving an organization's goals through informing, persuading and entertaining. Students focus on research, writing, and both studio and remote video production. Prerequisite: JCM 220.

JCM 358. FILM PRODUCTION**4 sh**

Students in this course explore concepts of film-style cinematography and editing. Students are responsible for writing, shooting and editing their own productions using video and computer-based editing systems. Prerequisite: JCM 220.

JCM 360. MEDIA HISTORY**4 sh**

This course examines the development, growth and impact of media in America. It studies the major trends, important personalities, technological advancements and societal impact ranging from colonial newspapers in the 1600s to today's print and electronic media.

JCM 364. WEB PUBLISHING AND DESIGN**4 sh**

In this advanced study of online publishing, students analyze the effective use of the Internet as a publication tool and its impact on society. Students experiment with diverse ways of using media such as text, graphics, sound and video to effectively transmit information and data and to interact with users. Prerequisite: JCM 220.

JCM 365. INTERACTIVE AND NEW MEDIA**4 sh**

Students analyze the history and structure of interactive and newer media forms (such as DVD, CD-ROM and the Internet) and explore their potential uses. This course experiments with interactive presentations and emerging media, using a media theory framework and models drawn from the fields of cognition and graphic design.

Prerequisite: JCM 220.

JCM 366. TELEVISION PRODUCTION**4 sh**

Students explore the principles and techniques in television broadcasting and other video media. Studio and field assignments emphasize the aesthetics of teleproduction and the centrality of effective audio. Students research, write and produce news, commercials and public service announcements. Prerequisite: JCM 220.

JCM 367. FILM AESTHETICS AND DESIGN**4 sh**

This course provides a conceptual framework for designing and creating cinema and television programs. It focuses on applied visual aesthetics including production design, camera composition, color, motion, editing, sound effects and music. The course highlights the relationship between story content and artistic form. Prerequisite: JCM 220 and 306.

JCM 368. THE DOCUMENTARY**4 sh**

Students trace the origins of the documentary and its status today, ranging from news documentaries to nature and travel films to major artistic documentaries. Students produce documentary projects outside of class. Prerequisite: JCM 220 and 306.

JCM 369. THE AUTEUR DIRECTOR**4 sh**

The auteur theory proposes that the greatest movies are dominated by the personal vision of one person, the director. This course examines the career of a specific director, emphasizing that director's auteur characteristics. Students view selected films from the director's filmography and write about particular auteur characteristics. Prerequisite: JCM 306.

JCM 371. SEMINAR: SPECIAL TOPICS**1-4 sh**

Recent examples include Media Management, Global Press Freedom and Ethics, Philanthropy and Corporate Communications, Magazine Writing, The Pulitzer Prizes and Advertising Copywriting.

181**JCM 380. MEDIA WORKSHOP****1 sh**

An on-campus practicum with student media, featuring weekly instruction from a faculty advisor. Prerequisite: approval of dean's office. Maximum of 4 credit hours applied toward major.

JCM 381. COMMUNICATIONS INTERNSHIP**1-4 sh**

An off-campus, professionally supervised internship in journalism, broadcast and new media, corporate communications or cinema. Students secure an internship with guidance from the School's internship office and enroll for 1, 2, 3, or 4 credit hours, based on at least 80 work-hours per credit hour. An internship involves creation of a student portfolio, reflection assignments and supervisor evaluations. Maximum of 4 hours of internship credit may apply toward the major. Prerequisite: approval of School's internship director.

JCM 395. MEDIA LAW AND ETHICS**4 sh**

The First Amendment is the philosophical foundation for freedom of speech and press in America. This course distinguishes between forms of communication that have constitutional protection and those with limitations (libel, privacy, copyright, censorship, commercial speech, broadcast licensing, access to information). Students explore the foundations of moral reasoning and apply ethical responsibilities to communications cases. Prerequisite: junior status.

JCM 404. CORPORATE CAMPAIGNS**4 sh**

This course provides for the application of public relations strategies and techniques through the creation of a communications campaign for real clients. Students engage in audience analysis, budget preparation and development of a strategic plan for corporate, nonprofit, association and/or government clients. Prerequisite: JCM 304, 334, and either 327 or 352.

JCM 425. INVESTIGATIVE REPORTING**4 sh**

Students focus on sophisticated newsgathering techniques such as investigative journalism, computer-assisted reporting and the use of databases, and complex issues influencing public affairs reporting. Significant reporting and newswriting assignments include off-campus work. Prerequisite: JCM 300.

JCM 430. TELEVISION NEWS REPORTING**4 sh**

In this advanced study of electronic news gathering, students analyze current examples of news and public affairs programming as well as research, write, edit and produce television news packages. Prerequisite: JCM 330.

JCM 491. INDEPENDENT STUDY**1-4 sh**

Students work with a faculty member on a rigorous project outside the domain of traditional coursework. Prerequisite: approval of dean's office. Maximum of 4 credit hours applied toward major.

JCM 495. GREAT IDEAS: CAPSTONE IN COMMUNICATIONS**4 sh**

Students examine the importance of free expression in a democracy and other great ideas, and trends such as media convergence, global communications, media consolidation and the impact of new technologies. The course assesses student learning of professional values and competencies, and students create a capstone project. Prerequisite: senior status and completion of JCM 395. Students must pass this course with a grade of C- or better.

JCM 499. RESEARCH**1-4 sh**

This course offers students the opportunity to create an undergraduate original research project guided by a faculty mentor. A research proposal form completed by the student and faculty mentor is required for registration. Prerequisite: approval of the dean's office.

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Latin American Studies

Coordinator: Professor C. Brumbaugh

The Latin American Studies minor offers an opportunity to study one of the most diverse and fascinating regions of the world. It enables students to supplement their major with coursework in two or more disciplines that explore the ways in which Latin Americans have expressed their culture and identity through language, literature and the arts. Courses in the minor investigate the collective aspirations of Latin Americans through their social and political behavior, cultural priorities and responses to community, national and international issues as well as the physical environment. With an area two and one half times larger than the United States and a population nearly twice that of the United States, Latin America is a region of growing significance. Hemispheric relationships are expanding in terms of trade, immigration and cultural expression. The minor

addresses Latin America as an important region of intrinsic interest, allowing students pursuing any major to expand their understanding of the history, social dynamics and cultural diversity of the area. The minor is beneficial to students interested in careers in teaching, law, health care, business, communications, the arts, nonprofits, government and other fields, and for students wishing to pursue graduate degrees with emphasis on area studies or foreign language.

A minor in Latin American Studies requires 20 semester hours selected from the following list of courses and others approved by the program coordinator. No more than twelve hours may be chosen from any one discipline. Up to eight hours of study abroad courses that emphasize Latin American subject matter may count for the minor, as approved by the program coordinator.

Language Proficiency

Intermediate proficiency in the Spanish language is a concurrent requirement for the minor. This requires students to either pass the Spanish placement exam at the SPN 122 level, pass SPN 122 for an additional 4 hours, or pass SPN 121 and SPN 122 for an additional 8 hours beyond the 20 hours required for the minor. Students using these courses to meet the concurrent requirement are advised to take them as early as possible.

ENG 335	Latin American Literature and Culture	4 sh
GEO 342	Gender and Environment in South America	4 sh
HST 341	Modern Central American History	4 sh
HST 350	History of Brazil	2 sh
HST 351	History of Mexico	2 sh
HST 353	Colonial Latin America	4 sh
HST 354	Modern Latin America	4 sh
POL 368	Latin American Politics	4 sh
SOC 363	Latin American Social Movements	4 sh
SOC 364	Inequality and Development in Latin America	4 sh
SPN 341	Latin American Literature I: Discovery, Conquest, Colonial Era and Independence	4 sh
SPN 342	Latin American Literature II: From Modernism to Magic Realism	4 sh
SPN 362	Latin American Civilization	4 sh
SPN 363	Latinos in the U.S.	4 sh
LAS 491	Independent Study	4 sh
LAS 481	Internship in Latin American Studies	4 sh
LAS 499	Research	1-4 sh
TOTAL		20 sh

Leisure and Sport Management

Chair, Department of Leisure and Sport Management: Associate Professor Drummond

Associate Professor: Walker

Assistant Professor: Orejan

The Leisure and Sport Management major prepares students to plan, manage and sustain effective leisure and sport experiences in private, public and commercial settings. There are emphases on leisure entrepreneurship, salesmanship and marketing as well as principles of all aspects of leisure and sport management. Students develop a "service" sensitivity and skills applicable to leisure and sport settings.

A major in Leisure and Sport Management requires the following courses:

LSM 212	Introduction to Leisure and Sport Management	4 sh
LSM 226	Facility Planning and Maintenance Management	4 sh
LSM 227	Programming and Event Management	4 sh
LSM 332	Research Methods in Leisure and Sport Management	4 sh
LSM 351	Leisure and Sport Marketing	4 sh
LSM 405	Legal Aspects of Leisure and Sport Management	4 sh
LSM 412	Financial Operations of Leisure and Sport	4 sh
LSM 426	Governance and Policy Development	4 sh
LSM 461	Senior Seminar	4 sh
LSM 481	Internship in Leisure and Sport Management	6 sh
ACC 201	Principles of Financial Accounting	4 sh
BUS 202	Business Communications	4 sh
BUS 303	Introduction to Managing	4 sh
Total		54 sh

A minor in Leisure and Sport Management requires the following courses:

LSM 212	Introduction to Leisure and Sport Management	4 sh
LSM 226	Facility Planning and Maintenance Management	4 sh
LSM 227	Programming and Event Management	4 sh
Eight semester hours chosen from the following:		8 sh
LSM 351	Leisure and Sport Marketing	
LSM 405	Legal Aspects of Leisure and Sport Management	
LSM 412	Financial Operations of Leisure and Sport	
LSM 426	Governance and Policy Development	
Total		20 sh

LSM 212. INTRODUCTION TO LEISURE AND SPORT MANAGEMENT 4 sh

This course is an introduction to leisure and sport management fundamentals emphasizing the role and relevance of each to society. Students study terminology, philosophies and evolution of leisure and sport, internal and external recreation motivation factors, leisure concepts and relevant contemporary issues.

LSM 226. FACILITY PLANNING AND MAINTENANCE MANAGEMENT 4 sh

This study focuses on area and facility planning and maintenance principles in leisure settings, including developing a master plan and analyzing the relationship of maintenance and planning to risk management, visitor control, vandalism and law enforcement.

LSM 227. PROGRAMMING AND EVENT MANAGEMENT**4 sh**

Students study the principles of organization, planning and group dynamics as they apply to leisure events. They also learn to identify, develop and apply component skills such as needs assessment, inventory and evaluation. Students will plan and administer an actual event.

LSM 332. RESEARCH METHODS IN LEISURE AND SPORT MANAGEMENT**4 sh**

An examination of research methods in leisure and sport settings, including: research techniques, defining research problems, hypotheses development, reviewing and interpreting literature, organizing, analyzing and presenting data. Prerequisite: LSM 212.

LSM 351. LEISURE AND SPORT MARKETING**4 sh**

This course examines the theory and pragmatic aspects of service marketing, promotions and public relations and their application to the leisure and sport industry. Prerequisite: LSM 212.

LSM 405. LEGAL ASPECTS OF LEISURE AND SPORT MANAGEMENT**4 sh**

The United States is the most litigious nation in the world. Consequently, as a major sector of the economy, the leisure and sport industry managers must be aware of component legal issues in order to operate safely and efficiently. This course will allow students to examine pertinent legal issues such as contracts, personal and product liability, risk management, gender discrimination, human resources and drug testing. Prerequisite: LSM 212.

LSM 412. FINANCIAL OPERATIONS OF LEISURE AND SPORT**4 sh**

This course presents an overview of financial and economic issues within the leisure and sport industry. Topics include economic impact analysis, public and private sector resources, facility funding, sponsorship, fundraising for profit and non-profit agencies, commercial and public recreation, collegiate and professional sport organizations. Prerequisite: LSM 212.

LSM 426. GOVERNANCE AND POLICY DEVELOPMENT**4 sh**

An analysis of policy development within public and private recreation settings, professional sport, interscholastic sport, and national and international leisure and sport organizations. This course will include analyses of the implications of cultural and social issues in these varied settings. Prerequisites: senior standing or permission of instructor; LSM 212.

LSM 461. SENIOR SEMINAR**4 sh**

Students eclectically review academic work to date and demonstrate ability to analyze contemporary issues/problems in leisure and sport management. Prerequisites: LSM 212 and senior standing.

LSM 481. INTERNSHIP IN LEISURE AND SPORT MANAGEMENT**6 sh**

This course provides students with 400 supervised hours (agency and university) of experiential exposure in the area of their vocational interest. Students demonstrate knowledge, skills, abilities and competencies in the areas of organization and administration, leadership techniques, program planning and implementation, fiscal administration, personnel development and supervision, public and political relations and area/facility planning, development and maintenance. Students will submit the following to the academic supervisor: learning objectives, weekly reports and an agency survey showing comprehensive knowledge of the agency. Arrangements with a professor must be made prior to the semester in which the internship is taken. Prerequisite: for LSM majors, must have junior standing and 2.0 GPA in major. Offered fall, spring and summer.

LSM 491. INDEPENDENT STUDY**1-4 sh****LSM 499. RESEARCH IN LEISURE AND SPORT MANAGEMENT****1-4 sh**

Mathematics

Chair, Department of Mathematics: Associate Professor Allis

Professors: J. Clark, Francis, Haworth

Associate Professors: T. Lee, Plumblee, Russell

Assistant Professors: J. Beuerle, Coles, Mir

Lecturer: L. Beuerle, Mays

Adjuncts: Avineri, Shreffler, Travis, Walton, Whiffen

The Department of Mathematics offers programs leading to the A.B. or B.S. degree with a major in Mathematics. A minor in mathematics is available for students majoring in another discipline.

Mathematics is an excellent major for the student whose immediate objective is to acquire a good liberal arts education. Students who complete a bachelor's degree in mathematics may choose several postgraduate alternatives, including work in a variety of industries, an advanced degree in either mathematics or another closely related field (computer science, biometry, information science, statistics or operations research) or law school.

Students who combine mathematics with another discipline that uses mathematics can also pursue graduate work in the second discipline. These areas include biology, chemistry, economics, medicine, physics and many of the social science disciplines. In addition, mathematics majors may teach at the secondary level or work in business, industry or government positions which emphasize analytical reasoning.

The Bachelor of Arts and the Bachelor of Science degrees in Mathematics require the following core courses:

MTH 121	Calculus and Analytic Geometry I	4 sh
MTH 221	Calculus and Analytic Geometry II	4 sh
MTH 231	Mathematical Reasoning	4 sh
MTH 311	Linear Algebra	4 sh
MTH 312	Abstract Algebra	4 sh
MTH 321	Calculus and Analytic Geometry III	4 sh
MTH 425	Analysis	4 sh
MTH 361	Seminar I	2 sh
MTH 461	Seminar II	2 sh
TOTAL		32 sh

A Bachelor of Arts degree in Mathematics requires the following courses:

Core courses in Mathematics	32 sh
One course selected from:	4 sh
MTH 331 Modern Geometry	
MTH 341 Probability and Statistics	
MTH 351 Theory of Computation	
MTH 415 Numerical Analysis	
MTH 421 Differential Equations	
MTH elective(s) at the 300-400 level (excluding MTH 481)	4 sh
CSC 130 Computational Programming	4 sh
PHY 113 Physics with Calculus I	4 sh
TOTAL	48 sh

A Bachelor of Science degree in Mathematics requires the following courses:

Core courses in Mathematics	32 sh
One course selected from:	4 sh
MTH 331 Modern Geometry	
MTH 341 Probability and Statistics	
MTH 351 Theory of Computation	
MTH 415 Numerical Analysis	
MTH 421 Differential Equations	
MTH elective(s) at the 300–400 level (excluding MTH 481)	4 sh
CSC 130 Computational Programming	4 sh
One CSC course numbered above 130	4 sh
PHY 113 Physics with Calculus I	4 sh
PHY 114 Physics with Calculus II	4 sh
TOTAL	56 sh

Secondary Teaching Licensure in Mathematics

Students planning to teach mathematics at the secondary level must complete a Bachelor of Arts or Bachelor of Science degree in Mathematics and include MTH 331 and 341 among the mathematics requirements, in addition to the required professional education courses. (See professional education course requirements listed under Education.)

A Bachelor of Science degree in Engineering Mathematics: see requirements listed under Engineering.

A minor in Mathematics requires the following courses:

MTH 121 Calculus and Analytic Geometry I	4 sh
MTH 221 Calculus II	4 sh
MTH 231 Mathematical Reasoning	4 sh
MTH 311 Linear Algebra	4 sh
Elective(s) from MTH 112 or Mathematics courses numbered 200 or above (excluding MTH 210 and MTH 481) Computer Science courses, or Economics 203	4 sh
TOTAL	20 sh

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A student may exempt MTH 112, 115 and/or 121 by demonstrating proficiency.

Once a student has received credit, including transfer credit for a course, credit may not be received for any course with material that is equivalent to it or is a prerequisite for it, without permission of the mathematics department.

MTH 100. ALGEBRAIC CONCEPTS

4 sh

This course is designed to develop and maintain proficiency in basic algebra skills and to prepare students for future mathematics work in college courses. Topics include exponents, factoring, equation solving, rational expressions, radicals, quadratic equations and graphs of functions. A specific graphing calculator is required. This course must be completed with “C–” or better before taking any other mathematics course. Elective credit only. No credit will be given to students having passed MTH 115 or higher. Offered fall and spring.

MTH 112. GENERAL STATISTICS**4 sh**

This course provides an introduction to modern statistics. Students will analyze and critically interpret real world data using information such as the U.S. Census, election results and health issues. This course emphasizes communication, use of technology and collaborative learning. Topics covered include descriptive statistics, basic probability, inferential statistics and regression analysis. A specific graphing calculator is required. Prerequisite: MTH 100 or placement exemption. Offered fall and spring.

MTH 115. TRIGONOMETRY**4 sh**

This course provides a study of algebraic, trigonometric, exponential and logarithmic functions and their behavior. Constructing, analyzing and describing mathematical models of everyday phenomena is emphasized. A specific graphing calculator is required. Prerequisite: MTH 100 or placement exemption. Offered fall.

MTH 116. APPLIED CALCULUS**4 sh**

This introduction to linear systems and differential calculus emphasizes applications to problem solving in business and economics. Students gain enhanced ability to analyze a problem mathematically and study the following topics: functions, limits, derivatives and applications of derivatives. No credit for students with MTH 121 or its exemption. A specific graphing calculator is required. Prerequisite: MTH 100 or placement exemption. Offered fall, winter and spring.

MTH 121. CALCULUS AND ANALYTIC GEOMETRY I**4 sh**

Students are introduced to analytic geometry, functions, limits and continuity, differentiation of algebraic functions with applications, the definite integral and the fundamental theorem of integral calculus. A specific graphing calculator is required. Prerequisite: MTH 115 or placement exemption. Offered fall and spring.

MTH 206. DISCRETE STRUCTURES**4 sh**

This course offers an intensive introduction to discrete mathematics as it is used in computing sciences. Topics include functions, relations, propositional and predicate logic, simple circuit logic, proof techniques and elementary and discrete probability. Prerequisite: MTH 116 or MTH 121. Offered spring.

MTH 210. MATHEMATICS FOR ELEMENTARY AND MIDDLE GRADES TEACHERS**4 sh**

This course is open only to students majoring in elementary education, special education or middle grades education with a concentration in mathematics. Topics include problem solving, numeration systems, set theory, rational and irrational numbers (concepts, operations, properties and algorithms), geometry, measurement and selected topics in probability and statistics. Prerequisite: General Studies mathematics requirement. Offered fall, winter and spring.

MTH 221. CALCULUS AND ANALYTIC GEOMETRY II**4 sh**

Students explore applications of the definite integral, differentiation and integration of transcendental functions, techniques of integration, indeterminate forms, improper integrals, infinite sequences and series. A specific graphing calculator is required. Prerequisite: MTH 121. Offered fall and spring.

MTH 231. MATHEMATICAL REASONING**4 sh**

This study of proof techniques and reasoning skills introduces the student to another side of mathematics, namely proof. The student's preceding courses (e.g., precalculus and calculus) usually focus on calculations. Topics include mathematical logic, sets, mathematical induction, combinatorics, relations and countability arguments. Prerequisite: MTH 121. Offered fall and spring.

MTH 311. LINEAR ALGEBRA**4 sh**

This introductory course in linear algebra includes systems of linear equations, matrices, determinants, vector spaces, eigenvalues, eigenvectors, orthogonality and linear transfor-

mations. Proofs of the major theorems and a variety of applications are also covered.

Prerequisites: MTH 221, 231. Offered fall and spring.

MTH 312. ABSTRACT ALGEBRA

4 sh

Students who have had an introduction to the rules of logic and proof construction are introduced to abstract algebra, including topics such as functions, groups (cyclic, permutation, normal and quotient), properties of groups, rings, fields, homomorphisms, isomorphisms, real and complex numbers and polynomials. Prerequisites: MTH 231, 311.

Offered spring.

MTH 321. CALCULUS AND ANALYTIC GEOMETRY III

4 sh

This course provides a study of advanced techniques of differential and integral calculus, including plane curves and polar coordinates, three-dimensional analytic geometry including vectors, differentiation and integration of multivariable functions and applications. A specific graphing calculator is required. Prerequisite: MTH 221.

MTH 331. MODERN GEOMETRY

4 sh

This rigorous treatment of axiomatic foundations of Euclidean geometry through Hilbert's axioms includes the role and independence of the parallel postulate (revealed through models and neutral geometry), straightedge and compass constructions, historical and philosophical implications of the discovery of non-Euclidean geometry with an introduction to both hyperbolic and elliptic geometry. Prerequisite: MTH 231. Offered fall of odd-numbered years.

MTH 341. PROBABILITY THEORY AND STATISTICS

4 sh

Topics include axiomatic probability, counting principles, discrete and continuous random variables and their distributions, sampling distributions, central limit theorem, confidence intervals and hypothesis testing. Prerequisites: MTH 221 and 231. Offered fall of even-numbered years.

MTH 351. THEORY OF COMPUTATION

4 sh

(Cross-listed with CSC 351. See CSC 351 for description.)

MTH 361. SEMINAR I

2 sh

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This course prepares mathematics majors for Seminar II, the capstone seminar, by instruction and experience in library research and formal oral presentations on advanced mathematical topics selected by the instructor and students. Prerequisite: junior/senior standing or permission of the mathematics department. Offered spring.

MTH 371. SPECIAL TOPICS

2-4 sh

Topics are selected to meet the needs and interests of students.

MTH 415. NUMERICAL ANALYSIS

4 sh

This introduction to numerical analysis includes floating point arithmetic, interpolation, approximation, numerical integration and differentiation, nonlinear equations and linear systems of equations. Prerequisites: CSC 130; MTH 311, 321; or permission of the instructor. (Cross-listed with CSC 415.) Offered spring of even-numbered years.

MTH 421. DIFFERENTIAL EQUATIONS

4 sh

Topics in this in-depth study of methods of solution and applications of ordinary differential equations include first-order differential equations (linear and nonlinear), linear differential equations of higher order, mathematical models using second-order equations, systems of differential equations and numerical techniques including Euler, Improved Euler and the Runge-Kutta method. Computers or programmable calculators may be used. Prerequisite: MTH 321. Offered spring.

MTH 425. ANALYSIS

4 sh

This course provides an in-depth study of topics introduced in the three-course calculus sequence, including sequences and series, continuity and differentiation of functions of a single variable, the Riemann integral and the fundamental theorem of calculus. Prerequisites: MTH 312 and 321. Offered fall.

MTH 461. SEMINAR II**2 sh**

In this capstone experience for senior mathematics majors, students conduct extensive research on a mathematical topic and formally present their work in writing and orally. Course requirements include a satisfactory score on the ETS major field achievement test. Prerequisites: MTH 361 and junior/senior standing or permission of the department. Offered fall.

MTH 471. SPECIAL TOPICS**2-4 sh**

Topics are selected to meet the needs and interests of the students.

MTH 481. INTERNSHIP IN MATHEMATICS**1-4 sh**

The internship provides advanced work experiences in some aspect of mathematical sciences and is offered on an individual basis when suitable opportunities can be arranged. Prerequisite: permission of the department.

MTH 491. INDEPENDENT STUDY**1-4 sh**

Prerequisite: permission of the department. May be repeated with different topics for up to a total of eight semester hours.

Medical Technology

Chair, Department of Biology and Allied Health: Associate Professor Kingston

Program Director: J. Simmons

Medical Director: Garvin

University Program Director: H. House

See Biology.

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Military Science

Elon University, in cooperative agreement with North Carolina A&T State University, offers an Army Reserve Officers' Training Corps (ROTC) program and Air Force ROTC program. The Air Force ROTC program is offered totally on the North Carolina A&T State University campus. Students must register for the required aerospace science courses through the Greater Greensboro Consortium program in the Elon University Registrar's Office.

The Army Reserve Officers' Training Corps program provides a viable elective program for both male and female students. The program is divided into a basic course and an advanced course. These courses are normally completed during a four-year period. However, it is possible for veterans and other students who elect to undergo special training to complete the program in two years.

PROGRAMS OF INSTRUCTION

Programs of instruction for the Army ROTC include a four-year program and a two-year program. The four-year program consists of a two-year basic course, a two-year advanced course and the advanced ROTC Summer Camp. The two-year program encompasses a basic ROTC Summer Camp, a two-year advanced course and the advanced ROTC Summer Camp.

BASIC COURSE

The basic course is normally taken during the freshman and sophomore years. The purpose of this instruction is to introduce the student to basic military subjects: branches of the Army; familiarization with basic weapons, equipment and techniques; military organization

and functions; and the techniques of leadership and command. It is from the students who successfully complete this instruction that the best qualified are selected for the advanced course which leads to an officer's commission.

Credit for the basic course can be obtained by successfully completing the following courses:

MSC 111	Introduction of Citizen/Soldier	1 sh
MSC 112	Introduction to U.S. Military Forces	1 sh
MSC 141, 142	Leadership Laboratory	1 sh/ea
MSC 211	Development of Professional Military Skills I	1 sh
MSC 212	Development of Professional Military Skills II	1 sh
MSC 241, 242	Leadership Laboratory	1 sh/ea
TOTAL		8 sh

Successful completion of Military Science 251 or prior service in the Armed Forces can be used to obtain appropriate credit for the basic course.

ADVANCED COURSE

Students who receive appropriate credit for the basic course and meet eligibility standards are admitted to the advanced course on a best-qualified basis. Successful completion of the advanced course qualifies the student for a commission as a Second Lieutenant in one of the branches of the United States Army, Army Reserves or Army National Guard. The following courses are required for completion of the advanced course:

MSC 311	Leadership Training	2 sh
MSC 312	Introduction to Military Team Theory	2 sh
MSC 341, 342	Leadership Laboratory	1 sh/ea
MSC 351	Army ROTC Advanced Camp	4 sh
MSC 411	Seminars in Leadership and Professional Development	2 sh
MSC 412	Leadership, Law and Ethics	2 sh
MSC 441, 442	Leadership Laboratory	1 sh/ea
TOTAL		16 sh

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TWO-YEAR PROGRAM

This program is designed for junior college students or sophomores at four-year institutions who have not taken ROTC. A basic six-week summer training period after the sophomore year takes the place of the basic course required of students in the traditional four-year program. When a student with two years of college has successfully completed the basic summer training, he/she is eligible for the advanced ROTC course in his/her junior and senior years. The advanced course, which leads to an officer commission, is the same for students in either the two-year program or the four-year program.

MSC 111. INTRODUCTION OF CITIZEN/SOLDIER **1 sh**

MSC 112. INTRODUCTION TO U.S. MILITARY FORCES **1 sh**

Introduction to U.S. Military Forces provides an introduction to and fosters the early development of leadership and soldier skills. Topics of training include leadership, drill and ceremonies, first aid and general military subjects.

MSC 141,142. LEADERSHIP LABORATORY (each semester) **1 sh**

Hands-on, practical training is the focus of the Leadership Laboratory. Students become proficient in basic military skills, drill and ceremonies, first aid and conducting inspections. Attention is also given to individual arms and marksmanship techniques.

MSC 211. DEVELOPMENT OF PROFESSIONAL MILITARY SKILLS I**1 sh**

This course continues the development of cadet leadership and critical skills. Training is basic in scope and includes leadership, written and oral communications, physical fitness and general military subjects.

MSC 212. DEVELOPMENT OF PROFESSIONAL MILITARY SKILLS II**1 sh**

Instruction in the second part of this sequence expands the students' frame of reference to include an understanding of roles and responsibilities and fosters internalization of the Professional Army Ethic. Training is basic in scope and includes written and oral communication, military skills, professional knowledge subjects and physical fitness.

MSC 241, 242. LEADERSHIP LABORATORY (each semester)**1 sh**

This Leadership Laboratory serves as a learning laboratory for hands-on practical experiences. Training includes instruction on operations, tactics, land navigation, first aid and general military subjects. Key course components emphasize the functions, duties and responsibilities of junior noncommissioned officers. The primary focus is the continued development of leadership potential through practical experience. The APFT is given to assess the state of physical development.

MSC 251. ARMY ROTC BASIC CAMP**4 sh**

Basic Camp is six weeks of training at Fort Knox, KY, consisting of Army history, role and mission, map reading/land navigation, rifle marksmanship, basic leadership techniques, physical training/marches, individual and unit tactics and communications. This course can be taken by rising juniors to substitute for MSC 111, 112, 141, 142, 211, 212, 241, 242. Prerequisites: qualification tests.

MSC 311. LEADERSHIP TRAINING**2 sh**

Designed to prepare cadets for the full range of responsibilities associated with Advanced Camp, Leadership Training refines the leader development process. Instruction is supplementary in scope and includes leadership, written and oral communications, operations, tactics and general military subjects.

MSC 312. INTRODUCTION TO MILITARY TEAM THEORY**2 sh**

This course emphasizes the development of intermediate level cadet leader skills in preparation for Advanced Camp. Training is supplementary in scope and includes leadership, written and oral communications, operations, tactics, land navigation, weapons and general military subjects.

MSC 341, 342. LEADERSHIP LABORATORY (each semester)**1 sh**

In this learning laboratory for hands-on practical experiences, the focus is on soldier team development at a squad/patrol level; supplementary training includes land navigation and weapons. Emphasis is also placed on the development of intermediate leader skills in a field environment. The APFT is administered to assess physical development.

MSC 351. ARMY ROTC ADVANCED CAMP**4 sh**

Normally taken the summer following the junior year, the six-week Advanced Camp training/internship is conducted at designated U.S. Army installations. Prerequisite: MSC 312.

MSC 411. SEMINARS IN LEADERSHIP AND PROFESSIONAL DEVELOPMENT**2 sh**

Cadets develop leadership, technical and tactical skills through performance as a trainee/supervisor. Supplementary training includes leadership, written and oral communications, operations and tactics, physical fitness, training management and general military subjects. The focus gradually shifts to familiarize the student with future assignments as an officer.

MSC 412. LEADERSHIP, LAW AND ETHICS**2 sh**

This course continues the development of critical leadership skills. Training includes leadership, ethics, professionalism, law, written and oral communications, operations, tac-

- tics and general military subjects. The course culminates with instruction on making the transition to the Officer Corps.
- MSC 441,442. LEADERSHIP LABORATORY (each semester)** 1 sh
- Hands-on practical experiences reinforce cadet training, which is designed to solidify the commitment to officership, reinforce individual competencies and afford maximum practical officer leadership experiences. The laboratory emphasizes the functions, duties and responsibilities of junior Army officers with special attention directed to developing advanced leadership skills through active participation in planning and conducting military drills, ceremonies and field training.
- MSC 451. AIRBORNE TRAINING** 3 sh
- Three weeks of intensive airborne training includes physical conditioning, landing techniques, parachute safety, simulated jumps, procedures in and around aircraft and five combat jumps from Air Force aircraft at 1,250 feet. Selection for this opportunity is highly competitive. Only a few cadets nationwide are accepted.

Multimedia Authoring

Coordinator: Lecturer Kleckner
 Associate Professor: Peeples
 Assistant Professors: Conklin, Rosinski, Schaeffer, Wood
 Lecturer: Strickland

As more and more information is disseminated electronically for personal computers and via the Internet, the artistic design and narrative quality of this digital content become increasingly important. The development of effective multimedia content can be especially challenging in traditionally human-centric disciplines such as training, education, entertainment and advertising. The Multimedia Authoring minor provides an interdisciplinary approach to the development of successful and persuasive digital content for all disciplines. These skills are beneficial for graduates in a variety of fields, but are especially relevant in publishing (both new electronic media, as well as traditional media), business marketing and business consulting.

This minor includes core courses from English, art and computing sciences intended to integrate the study of digital design and writing with a solid technical foundation. The final multimedia authoring project course provides an opportunity for students to apply the skills learned in writing, interface design, digital art and Web development to a significant project that will include both a research and application component. The project will address a multimedia challenge in the student's field of major study or related field of interest.

A minor in Multimedia Authoring requires the following courses:

ENG 212	Writing, Rhetoric and Interface Design	4 sh
ART 263	Digital Art I	4 sh
CIS 310	Interaction Design for Web and Multimedia	4 sh
CIS 320	Building Interactive Web Sites	4 sh
MMA 460	Multimedia Authoring Studio	4 sh

TOTAL	20 sh
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MMA 460. MULTIMEDIA AUTHORIZING STUDIO 4 sh

Students will develop an interactive, multimedia project which incorporates text with computer graphics, video and audio. This project will address a multimedia challenge in

the student's major field of study or related field of interest. Students will be involved in developing their final products through each stage of the full project lifecycle, including research, planning, design, implementation and maintenance/reflection. Prerequisites: ENG 212, ART 263, CIS 310, CIS 320.

Music

Chair, Department of Music: Professor D. Bragg
Professors: Erdmann, Fischer
Associate Professor: K. Lee
Assistant Professors: Coppedge, Futrell, Metzger
Instructor: LaRocco
Professor Emeritus: Artley
Lecturer: Butler-Cornelius
Adjuncts: M. Bragg, Carter, Celona, Cykert, Dharamraj, Dollak, Dula, Everette, Hogan, Henderson, R. King, McMillian, Newton, Novine-Whitaker, Sullivan, Van Ord
Artist-in-Residence: Metzger

The Department of Music at Elon University offers three music degrees. The B.S. in Music Education is for those students who wish to teach in elementary, middle or high school music programs. The program is a collaborative effort between the Department of Music and the Department of Education. The A.B. in Music Performance is for those students who wish to emphasize the study of instrumental or vocal music. Students in this program will be expected to become accomplished performers while developing a solid base in theory and history. The A.B. in Music is primarily for those students who do not wish to concentrate on a performance area or who wish to double major in another liberal arts department. Students in this program will have a continuing background in musical performance through participation in ensembles of their choice and private lessons.

An audition is required for acceptance into this program.

A major in Music requires the following courses:

MUS 111	The Materials of Music I	3 sh
MUS 112	The Materials of Music II	3 sh
MUS 113	Aural Skills I	1 sh
MUS 114	Aural Skills II	1 sh
MUS 211	The Materials of Music III	3 sh
MUS 212	The Materials of Music IV	3 sh
MUS 213	Aural Skills III	1 sh
MUS 214	Aural Skills IV	1 sh
MUS 154	Piano Class I	1 sh
MUS 155	Piano Class II	1 sh
MUS 315	The Music of Ancient Times Through Baroque	4 sh
MUS 316	Classic and Romantic Music	4 sh
MUS 495	Senior Seminar	2 sh

In addition, each music major must complete:

- (a) Eight semester hours Music electives at 300-400 level 8 sh
- (b) Six semesters of applied music lessons 6-10 sh

(c) Ensembles

4 sh

Concert attendance and departmental recital attendance as outlined in the Music Student Handbook.

TOTAL**46-50 sh**

An audition is required for acceptance into this program.

A major in Music Education requires the following courses:

MUS 111	The Materials of Music I	3 sh
MUS 112	The Materials of Music II	3 sh
MUS 113	Aural Skills I	1 sh
MUS 114	Aural Skills II	1 sh
MUS 211	The Materials of Music III	3 sh
MUS 212	The Materials of Music IV	3 sh
MUS 213	Aural Skills III	1 sh
MUS 214	Aural Skills IV	1 sh
MUS 313	Form and Analysis	2 sh
MUS 315	The Music of Ancient Times Through Baroque	4 sh
MUS 316	Classic and Romantic Music	4 sh
MUS 361	Percussion Techniques	1 sh
MUS 362	Brass Techniques	1 sh
MUS 363	Woodwind Techniques	1 sh
MUS 364	String Techniques	1 sh
MUS 365	Choral Techniques	1 sh
MUS 366	Conducting	2 sh
MUS 411	Instrumental and Choral Arranging	2 sh
MUS 413	Twentieth Century Techniques	2 sh
MUS 461	Music Education in the Public Schools	4 sh

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In addition, each Music Education major must complete:

- (a) Applied music lessons, at least one semester at 300 level 12 sh
- (b) Half-recital accepted by music faculty
- (c) Ensemble from Music 101, 102, 103, 105 and 109 8 sh
(Instrumental majors must complete two semesters of MUS 109)
- (d) Keyboard proficiency

Concert attendance and departmental recital attendance as outlined in the Music Student Handbook.

TOTAL**61 sh**

In addition, vocal majors must take MUS 258, Diction for Singers I and MUS 259, Diction for Singers II.

The music student must also complete the required professional education courses and observe the requirements for the teacher education program as outlined under Education.

An Audition is required for acceptance into this program.

The major in Music Performance requires the following courses:

MUS 111	The Materials of Music I	3 sh
MUS 112	The Materials of Music II	3 sh
MUS 113	Aural Skills I	1 sh
MUS 114	Aural Skills II	1 sh
MUS 211	The Materials of Music III	3 sh
MUS 212	The Materials of Music IV	3 sh
MUS 213	Aural Skills III	1 sh
MUS 214	Aural Skills IV	1 sh
MUS 313	Form and Analysis	2 sh
MUS 315	The Music of Ancient Times Through Baroque	4 sh
MUS 316	Classic and Romantic Music	4 sh
MUS 413	20th Century Techniques	2 sh
MUS 495	Senior Seminar	2 sh

A choice of one of the following: 2 sh

- MUS 366 Conducting
- MUS 367 Vocal Pedagogy
- MUS 369 Methods and Materials of Piano Pedagogy
- MUS 411 Instrumental and Choral Arranging

In addition, each Music Performance major must complete:

- (a) Applied music lessons, at least one semester at the 400 level 14 sh
 - (b) Half solo recital at the 300 level
 - (c) Full solo recital at the 400 level
 - (d) Ensemble from Music 101, 102, 103 and 105 8 sh
 - (e) Keyboard proficiency
- Concert attendance and departmental recital attendance as outlined in the Music Student Handbook.

TOTAL	54 sh
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In addition, vocal majors must take MUS 258, Diction for Singers I and MUS 259, Diction for Singers II.

An audition is required for acceptance into this program.

A minor in Music requires 20 semester hours. Students lacking functional knowledge of the keyboard must accumulate two semester hours in piano either prior to, or simultaneously with, their enrollment in Music 111 and 112.

The following courses are required:

MUS 111	The Materials of Music I	3 sh
MUS 112	The Materials of Music II	3 sh

A choice of one of the following: 4 sh

- MUS 303 Music History for the Liberal Arts Student
- MUS 315 The Music of Ancient Times Through Baroque
- MUS 316 Classic and Romantic Music
- MUS 319 History of American Music

In addition, each Music Minor must complete:

- | | |
|---|------|
| (a) One medium of applied music instruction | 6 sh |
| (b) Ensemble from MUS 101, 102, 103 and 105 | 4 sh |

TOTAL	20 sh
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A minor in Jazz Studies requires 24 semester hours.

The following courses are required:

MUS 111	The Materials of Music I	3 sh
MUS 112	The Materials of Music II	3 sh
MUS 113	Aural Skills I	1 sh
MUS 114	Aural Skills II	1 sh
MUS 254	Jazz Improvisation I	1 sh
MUS 255	Jazz Improvisation II	1 sh
MUS 256	Jazz Harmony	2 sh
MUS 318	History of Jazz	4 sh

In addition, each jazz studies minor must complete:

- | | |
|---|------|
| (a) One medium of applied music instruction | 4 sh |
| (b) Ensemble from MUS 104 or 219 | 4 sh |

TOTAL	24 sh
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Applied Music: Individual and Group Instruction

Music majors/minors register for the appropriate level and area of applied music study as determined by audition and consultation with their advisor or the department chair. With permission of the department, enrolled students may register for any course in applied music. Weekly 30-minute lesson: 1 sh credit (Section A). Weekly 60-minute lesson: 2 sh credit (Section B). A special fee is required for nonmajors.

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APPLIED MUSIC: INDIVIDUAL INSTRUCTION

Piano: 120, 220, 320, 420
 Organ: 121, 221, 321, 421
 Voice: 122, 222, 322, 422
 Trumpet: 123, 223, 323, 423
 French Horn: 124, 224, 324, 424
 Trombone: 125, 225, 325, 425
 Baritone (Euphonium): 126, 226, 326, 426
 Tuba: 127, 227, 327, 427
 Flute: 128, 228, 328, 428
 Oboe: 129, 229, 329, 429
 Clarinet: 130, 230, 330, 430
 Bassoon: 131, 231, 331, 431
 Saxophone: 132, 232, 332, 432
 Violin: 133, 233, 333, 433
 Viola: 134, 234, 334, 434
 Cello: 135, 235, 335, 435
 String Bass: 136, 236, 336, 436
 Guitar: 137, 237, 337, 437
 Percussion: 138, 238, 338, 438
 Electric Bass: 139, 239, 339, 439
 Harp: 140, 240, 340, 440

*Applied Music: Group Instruction***MUS 152, 153. VOICE CLASS I and II****1 sh**

Group voice instruction ranges from beginning to intermediate.

MUS 154-156. PIANO CLASS I-III**1 sh**

Group piano instruction ranges from beginner to intermediate.

MUS 158. GUITAR CLASS**1 sh**

Beginners develop musical skills with the guitar — simple chords, melodies and songs — using elements of classical guitar techniques as a foundation.

MUS 258. DICTION FOR SINGERS I**1 sh**

Students learn to use the International Phonetic Alphabet and are introduced to the pronunciation of English, Latin and French as it applies to vocal literature. Offered Fall alternate years.

MUS 259. DICTION FOR SINGERS II**1 sh**

Students continue to learn the International Phonetic Alphabet and are introduced to the pronunciation of Italian and German as it applies to vocal literature. Offered Spring alternate years.

*Music Materials, Structures and Techniques***MUS 111, 112. THE MATERIALS OF MUSIC I and II****3 sh**

A study of the fundamentals of music, diatonic harmony and elementary voice-leading and part-writing includes an introduction to harmonic-melodic form, analysis and synthesis of harmonic practices through secondary seventh chords. Offered fall and spring.

MUS 113, 114. AURAL SKILLS I and II**1 sh**

Study emphasizes melodic-harmonic-rhythmic dictation, sight singing and keyboard study. Offered fall and spring.

MUS 211, 212. THE MATERIALS OF MUSIC III and IV**3 sh**

A continuation of Music 112 on an advanced level includes complex chromatic harmonies and emphasizes analysis and composition of standard musical forms.

Prerequisite: MUS 112. Prerequisite for 212: MUS 211. Offered fall and spring.

MUS 213, 214. AURAL SKILLS III and IV**1 sh**

These courses provide advanced study in melodic-harmonic-rhythmic dictation, sight singing and keyboard study. Prerequisite: MUS 114. Offered fall and spring.

MUS 254, 255. JAZZ IMPROVISATION I and II**1 sh**

Instrumentalists or vocalists develop skills in improvisational jazz performance techniques.

MUS 256. JAZZ HARMONY**2 sh**

This course is a study of jazz harmonic vocabulary and its application to the jazz repertoire. Seventh chords, chord symbols, voicings, guide tones, color tones, voice leading and reharmonizations are examined. All students play the instrument of their choice and piano. Prerequisite: MUS 112.

MUS 311. COUNTERPOINT**4 sh**

Analysis and composition of period works are part of the study of counterpoint from the 16th to 20th centuries with applications to various vocal and instrumental writings. Prerequisite: MUS 212.

MUS 313. FORM AND ANALYSIS**2 sh**

This course acquaints the student with the standard forms of tonal music through the aural and visual study of micro and macro forms of representative works. Prerequisite: MUS 112. Offered fall of alternate years.

MUS 411. INSTRUMENTAL AND CHORAL ARRANGING**2 sh**

Students explore technical possibilities and limitations of individual instruments and voices. Study also covers arranging and transcribing for various combinations of instruments and voices. Prerequisite: MUS 112.

MUS 413. 20th CENTURY TECHNIQUES**2 sh**

This course is a study of the changes which have taken place in music of the 20th century. Techniques to be studied include atonality, polytonality, serialism, integral serialism, dodecophony and electronic music. Prerequisite: MUS 112. Offered spring of alternate years.

MUS 265-465. COMPOSITION**1 sh**

Students write compositions integrating techniques of studied repertoire as they explore musical composition in weekly individual meetings with an instructor. Prerequisite: MUS 112 or permission of instructor.

*Literature and History***MUS 216. THE STUFF OF MUSIC****4 sh**

Through a series of exercises, readings, outside class activities and class participation, students become familiar with the materials which form the basis of music, including instruments, notation and terminology. Hands-on application includes basic performance on rhythm instruments and composing simple music compositions.

MUS 217. WORLD MUSIC**4 sh**

Text readings, listening, research, writing and class presentation are part of an introduction to the music of Asia, Eastern Europe, Africa, and Central and South America. Students gain increased awareness of the art and music of other cultures, make connections with their own art and folk traditions and search for shared meanings of all musical licensure.

MUS 303. MUSIC HISTORY FOR THE LIBERAL ARTS STUDENT**4 sh**

Nonmusic majors gain improved skills to enhance musical enjoyment, basic knowledge of music styles and events, and focus on placing this knowledge in the context of world events and trends. Study covers selected personalities and works in music through substantial reading, listening, research and writing.

199**MUS 315. THE MUSIC OF ANCIENT TIMES THROUGH BAROQUE****4 sh**

This survey of music through the Baroque period emphasizes Renaissance and Baroque counterpoint through reading, listening, analysis, research and writing. Prerequisite: MUS 112. Offered fall of alternate years.

MUS 316. CLASSIC AND ROMANTIC MUSIC**4 sh**

By reading, listening, research and writing, students explore the relationship of 18th- and 19th-century music to the world – as the expression of artists responding to political, social and philosophical environments. The course also emphasizes the progressive study of formal analysis, from smaller forms to the large single and multi-movement genres of the period. Prerequisite: MUS 112. Offered fall of alternate years.

MUS 318. HISTORY OF JAZZ**4 sh**

This overview of jazz music from about 1900 to the present is designed for the liberal arts major. Topics include jazz styles, individual musicians and the development and progress of jazz through the 20th century.

MUS 319. HISTORY OF AMERICAN MUSIC**4 sh**

Study of American music from 1620 to the present focuses on elements of various musical cultures (e.g., Western and Eastern Europe, Africa, Latin America) that have influenced the American style of music.

MUS 343. AFRICAN AMERICAN COMPOSERS**4 sh**

This course looks at the lives of African-American composers, their music and the social structure within which they lived. The course allows students to investigate the

artistic impact of American historical events and trends such as Jim Crowe laws, segregation and cabaret cards.

MUS 345. THE MUSIC OF MILES DAVIS

4 sh

Jazz musician, composer, innovator, arranger, trumpeter Miles Davis (1926–1991) is easily arguable as the most significant jazz musician who ever lived. This course will look in-depth at Davis' music and how it reflected American culture in each of the decades of the last half of the 20th century.

MUS 469. WOMEN IN MUSIC

4 sh

This course will look at the lives and music of women musicians, composers and performers and the social structure within which they live and lived. The course will allow students to investigate the artistic impact of historical events and trends in not only America, but also the world, and how women in different eras were able to interact musically.

Music Education

The following technique courses are required for music majors seeking music teacher licensure.

MUS 361. PERCUSSION TECHNIQUES

1 sh

MUS 362. BRASS TECHNIQUES

1 sh

MUS 363. WOODWIND TECHNIQUES

1 sh

MUS 364. STRING TECHNIQUES

1 sh

MUS 365. CHORAL TECHNIQUES

1 sh

MUS 366. CONDUCTING

2 sh

Students develop skill in baton and rehearsal techniques and interpretation in training and leading various ensembles of instruments and voices.

MUS 367. VOCAL PEDAGOGY

2 sh

This upper level course focuses on the scientific and psychological aspects of singing and how this knowledge is applicably useful to the teacher of voice. It introduces basic anatomy and the physical processes of phonation along with psychological concepts that aid in the training and use of the singing voice. Physiological topics include resonance, breath support, tone production, vowels registration and flexibility. Other topics include pedagogical methods, vocal problems and vocal artistry. Prerequisite: One year of private voice at the MUS 122-B level. Offered fall of alternate years.

MUS 461. MUSIC EDUCATION IN THE PUBLIC SCHOOLS

4 sh

A study of the methods and materials suitable for teaching at all levels covers the administration of band, orchestra and choral programs in the public schools with additional emphasis on marching band techniques. Prerequisite: MUS 112. Offered spring of alternate years.

Ensembles

MUS 101. WIND ENSEMBLE

1 sh

Open to all students.

MUS 102. ELON CHORALE

1 sh

Open to all students.

MUS 103. ELON CHAMBER ORCHESTRA

1 sh

By audition only.

MUS 104. JAZZ ENSEMBLE

1 sh

By audition only.

- MUS 105. ELON CAMERATA** 1 sh
By audition only.
- MUS 106. CHAMBER ENSEMBLE** 1 sh
By audition only.
- MUS 107. ÉLAN (vocal jazz ensemble)** 1 sh
By audition only.
- MUS 108. PERCUSSION ENSEMBLE** 1 sh
By audition only.
- MUS 109. ELON UNIVERSITY MARCHING BAND** 1 sh
This ensemble will furnish half-time entertainment for football games and serve as a model for music education majors in the instruction and development of various styles of marching bands. Offered fall.
- MUS 219. JAZZ COMBO** 1 sh
Students explore jazz literature for small groups of instruments to gain an understanding of individual roles in a small ensemble. This will include planning, graphing and constructing improvisations within various musical forms.

Other Offerings

- MUS 369. METHODS AND MATERIALS OF PIANO PEDAGOGY** 2 sh
Students interested in teaching piano in a private studio explore group and individual instructional techniques for beginning and intermediate students, suitable repertoire, basic keyboard musicianship and pupil psychology.
- MUS 471. SEMINAR: SPECIAL TOPICS** 1-4 sh
Small groups study under the guidance of a member of the staff.
- MUS 491. INDEPENDENT STUDY** 1-4 sh
- MUS 495. SENIOR SEMINAR** 2 sh 201
This capstone experience for music includes a comprehensive evaluation of the student's previous education in the major field, a major project to demonstrate proficiency in the student's major area of interest or emphasis and preparation of materials necessary for enrollment in graduate school or the profession.

Music Theatre

Chair, Department of Performing Arts: Associate Professor McNeela
Professor: D. Bragg
Associate Professors: Becherer, K. Lee, Rubeck, Wellford
Assistant Professors: Gang, Ma, Sabo, Smith, Webb
Adjuncts: Flannery, Hyers, Johnson

The Department of Performing Arts offers a Bachelor of Fine Arts in Music Theatre, a degree geared toward the student who wishes to pursue a career in performance or graduate studies following graduation. Admission to the program requires an audition demonstrating initial talent.

Course work within this major is designed to train students in the three essential skill areas for music theatre: music, acting and dance. Students take studio dance classes in ballet, jazz, modern and tap, studio voice lessons, music theory, and a minimum of four semesters of acting. Further study includes the literature and history of music theatre.

Practical application of all aspects of study are expected through participation in department stage productions, concerts and recitals. Outreach to the professional world occurs throughout the course of study through participation in vocal, dance and theatre festivals, conventions, auditions and competitions. The final result is an artist prepared for entry to the world of professional performance.

A major in Music Theatre requires the following courses:

MTE 301	History of Music Theatre	4 sh
MTE 302	Music Theatre Literature	4 sh
MTE 321	Performance in Music Theatre	4 sh
MTE 495	Senior Seminar	4 sh
MUS 111	Materials of Music I	3 sh
MUS 113	Aural Skills I	1 sh
MUS 154	Piano Class	1 sh
THE 120	Acting I	4 sh
THE 220	Acting II	4 sh
THE 221	Acting III	4 sh
DAN 150	Dance for the Musical Stage I	1 sh
DAN 420	Dance for the Musical Stage II	1 sh

In addition, each major must complete the following:

(a) six semesters of private voice at appropriate level	12 sh
(b) six semesters of studio technique courses in dance with a minimum of one credit in each of the following: Ballet, Jazz, Modern and Tap	6 sh
(c) electives selected from Music Theatre, Theatre Arts, Dance or Music	14 sh
(d) one semester hour of singing in an ensemble	1 sh

TOTAL	68 sh
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MTE 301. HISTORY OF MUSIC THEATRE

4 sh

This course, open to all students, explores the origins and development of music theatre, its theatrical conventions and major elements from the mid-18th century to the present. Offered fall.

MTE 302. MUSIC THEATRE LITERATURE

4 sh

The purpose of this course is to expose the student to the staples of the music theatre literature, to develop a critical sensitivity to the medium and to enable analysis of music, plots, characters and situations in contemporary music theatre. Prerequisites: MUS 111, 113. Offered spring.

MTE 321. PERFORMANCE IN MUSIC THEATRE

4 sh

This performance-oriented course provides a systematic approach to achieving a high level of singing-acting skills. Students also receive training and practice in selecting, preparing and presenting audition material. Prerequisites: MUS 122 B, THE 120. Offered spring.

MTE 322. MUSIC THEATRE AND OPERA SCENE STUDY

4 sh

This performance-oriented course integrates music and theatre performance skills through the selection, development and presentation of partnered scenes from music theatre and opera repertoire. Prerequisites: two semesters of MUS 122 B or permission of instructor.

MTE 495. SENIOR SEMINAR

4 sh

This capstone experience for senior majors centers on a practical project which demonstrates proficiency in performance skills and preparation for graduate study or entry into the profession. Prerequisite: senior majors only. Course is two semesters in length. Students must take both semesters. Offered fall and spring.

Non-Violence Studies

Coordinator: Associate Professor Pickens

Non-Violence Studies takes an interdisciplinary approach to seeking solutions to violence in its many forms. This program offers students the opportunity to critically analyze popular notions concerning the causes of violence and challenges them to consider a variety of other perspectives. By taking courses in a number of disciplines, all focused on the same topic, students are encouraged to integrate the methods and essential questions of fields including religion, political science, economics, literature, sociology and psychology.

This minor is recommended for those interested in multicultural and international relations. The minor consists of a minimum of 20 semester hours, including a capstone course. An internship of 1-4 semester hours is strongly recommended.

A minor in Non-Violence Studies requires the following:

NVS 461-469 capstone course	4 sh
Sixteen semester hours selected from the following courses or other approved newly offered courses from at least three different departments.	16 sh

The following courses are regularly offered and listed by title in the catalog:

ENG 337	Asian Literature of Social Change
PHL 115	Ethical Practice
PHL 352	Eastern Philosophy
PHL 348	Environmental Ethics
POL 141	International Relations
POL 304	Theorists of Non-Violence
POL 324	Civil Liberties
POL 342	U.S. Foreign Policy
POL 345	International Terrorism
POL 367	Politics of Africa
POL 368	Latin American Politics
PSY 325	Psychology of American Protest Music
PSY 327	Psychology of Non-Violence
PSY 357	Criminal Behavior
REL 343	Women, Violence and Resistance
REL 344	Christianity and Social Justice
REL 348	Environmental Ethics
REL 353	Buddhism
SOC 241	Social Issues and Problems
SOC 245	Non-Violence of the Brave: From Gandhi to King
SOC 341	Ethnic and Race Relations
SOC 343	Social and Cultural Change

The following special topics courses are offered at various times, although not listed by title in the catalog:

ENG 370	Simple Living
ENG 372	Literature of Non-Violence
GST/ENG 373	America and Vietnam
GST/PHL 330	Economic Justice

HST 133	Civil Rights Movement
HST 388	History of the Caribbean
HST 463	Senior History Seminar: Local Civil Rights History (capstone course in the major)
JCM 373	Martin Ritt and American Society
NVS 171	Introduction to Mediation
POL 374	Judicial Administration
POL 377	Politics of Victimization
POL 441	Peace, War and Conflict Resolution
REL 279	Topics in Eastern Religion

TOTAL	20 sh
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NVS 461-469. SEMINARS ON NON-VIOLENCE **4 sh**

These seminars combine two or more interdisciplinary approaches to the problem of violence. Each will include exploration of non-violent approaches to conflict situations. Prerequisites: two courses in non-violence studies.

NVS 381. INTERNSHIP IN NON-VIOLENCE STUDIES **1-4 sh**

Research, service and occupational internships focusing on issues relating to violence and non-violence. Prerequisites: two courses in non-violence studies and permission of the coordinator.

Philosophy

Chair, Department of Philosophy: Professor Weston
Professor: Sullivan
Associate Professors: Batchelor, Cahill, Lubling
Assistant Professor: Fowler
Adjunct: Jegstrup

Philosophy lies at the heart of a liberal arts education. Philosophy at Elon has both a wisdom orientation for exploring enduring human concerns and a practical intent to enhance our lives together and our care for the earth.

Philosophical study at Elon focuses on three sets of skills: (1) critical and constructive thinking – aiding students in identifying, analyzing and offering solutions to problems; (2) ethical practice – exploring ways to act wisely and effectively in our life with others; and (3) interpretive understanding – allowing students to bridge the meaning and value systems of diverse individuals, cultures and epochs.

Such skills are valuable for law and leadership, ministry and the helping professions, citizenship and service, and for deepening the quality of our lives. At 36 semester hours, the philosophy major is designed to allow room for a double major or a career-related minor.

A major in Philosophy requires the following courses:

PHL 113	Critical Thinking	4 sh
PHL 115	Ethical Practice	4 sh
PHL 331	Ancient Philosophy	4 sh
PHL 333	Modern Philosophy	4 sh
One course from the following:		4 sh
PHL 431	Contemporary Philosophy	
PHL 432	American Philosophy	

PHL 433	Marx, Darwin and Freud	
Three courses chosen from any additional philosophy offerings		12 sh
PHL 461	Integrative Tutorial	4 sh
TOTAL		36 sh

A minor in Philosophy requires the following courses:

PHL 113	Critical Thinking	4 sh
PHL 115	Ethical Practice	4 sh
One course from the following:		4 sh
PHL 331	Ancient Philosophy	
PHL 333	Modern Philosophy	
Two courses chosen from any additional philosophy offerings		8 sh
TOTAL		20 sh

PHL 113. CRITICAL THINKING 4 sh

This foundation course in critical thinking introduces reading and listening skills, argument analysis and evaluation, and creative problem-solving methods. Such skills are valuable throughout life, from making effective presentations to promoting independent thinking. Offered fall and spring.

PHL 115. ETHICAL PRACTICE 4 sh

Ethical practice is a foundation course exploring ways to act wisely and effectively in our life with others. Drawing on the philosophical tradition and on critical examination of life situations, students engage such topics as personal integrity, sensitivity and fairness to others, and conditions for collaborative and respectful living. Offered fall and spring.

PHL 331. ANCIENT PHILOSOPHY 4 sh

This study of the origins of Western philosophy concentrates on the Golden Age of Greece, including such topics as Socrates, his predecessors and his great successors, Plato and Aristotle. Students consider what it means to live a human life in a humane and liberating communal context. Offered at least once every two years.

PHL 332. MEDIEVAL PHILOSOPHY 4 sh

This study focuses on 12th and 13th century European intellectual developments, showing how Platonic and Aristotelian strands blend with Jewish, Christian and Islamic elements. Special topics include Bernard and Abelard, Averroes and Maimonides, Hildegard and Mechthild, Aquinas and Bonaventure, and Dante and Eckhart.

PHL 333. MODERN PHILOSOPHY 4 sh

Discussion centers on crucial intellectual developments in the 17th and 18th centuries when the modern Western worldview arose. Specific attention is given to far-reaching changes in philosophical methods, theory of knowledge, new senses of self and world, and thinkers such as Descartes, Hume and Kant. Offered at least once every two years.

PHL 334. POLITICAL PHILOSOPHY 4 sh

Discussion focuses on the roots of modern political thought, including such key 17th- and 18th-century developments as the case for sovereignty in the modern nation state, the rise of individual rights and the rationale for modern democracy. Major thinkers such as Hobbes, Locke and Rousseau are studied against the background of their turbulent times.

PHL 337. DANTE'S JOURNEY 4 sh

This course will follow Dante's journey as expressed in *The New Life* and *The Divine Comedy*. In the process of following Dante's journey, we will explore the phenomenon

of courtly love, go through Hell together, learn the process of getting in touch with the more subtle obstacles to our growth as we climb the seven-storied mountain of Purgatory and finally explore levels of consciousness that take us through the spheres of spiritual deepening to the Love that moves the sun and other stars.

PHL 341. PHILOSOPHY OF LAW

4 sh

This basic examination of the nature, function and limits of law gives attention to human rights and natural justice, law and morality, theories of punishment and questions of legal responsibility. The course is of particular interest to prelaw, business and political science students.

PHL 342. PHILOSOPHY AND SOCIETY

4 sh

This course pursues a philosophical approach to the relation of individuals and social institutions. Topics considered may include the nature and possibility of the social sciences, philosophy of technology and the nature of community.

PHL 343. AGES AND STAGES OF LIFE

4 sh

In an archetypal approach to the stages of life, this course draws from transpersonal psychology/philosophy and from myths and stories of the first and second halves of life. The study seeks practical insights from developmental psychology and various spiritual teachings to help students deal with crucial life issues.

PHL 344. PHILOSOPHY OF SCIENCE

4 sh

Course study promotes the intelligent, critical assimilation of scientific information by developing a general framework for analyzing scientific claims. Topics include the structure of scientific reasoning, science in its cultural context, and the logical and other elements shaping scientific change.

PHL 345. FEMINIST PHILOSOPHY

4 sh

This survey and application of feminist philosophies examines central ideas in feminist thought, including the social construction of gender, the exclusion of women from traditional philosophy and the intersection of gender with other social factors such as race and class.

PHL 348. ENVIRONMENTAL ETHICS

4 sh

Students explore the bearing of philosophical and religious ethics upon practical problems regarding the natural environment. This course also considers the possible need for new ethical frameworks to address the environmental crisis we now face. (Cross-listed with REL 348.)

PHL 352. EASTERN PHILOSOPHY

4 sh

Eastern Philosophy centers first on ancient China, exploring The Book of Changes and the thought of Lao Tzu and Confucius. The course continues with investigation of Buddha's insight, following Mahayana Buddhism into China where it becomes Zen. Finally, the course examines the spirit of Zen and its influence on Japanese arts and culture.

PHL 355. PHILOSOPHY OF RELIGION

4 sh

This course explores Eastern and Western approaches to religious experience and notes differences between the literal, moralistic (exoteric) and the symbolic, mystical (esoteric) understandings of any religion. Students examine parable, teaching story, paradox and the problem of religious language and consider ways of assessing religious claims, communities and personal practices. (Cross-listed with REL 355.)

PHL 371-379. SPECIAL TOPICS

4 sh

Special topics are variable courses of timely and enduring interest. Past and current offerings include:

- PHL 371 Restorative Justice
- PHL 372 Philosophy of Education

PHL 373	Philosophy and the Holocaust
PHL 374	Philosophy of Love and Feminism
PHL 375	Philosophical Themes in the Films of Woody Allen
PHL 376	Philosophy of Camus
PHL 377	Theories of Knowledge
PHL 378	Law in Literature and Film
PHL 379	Living Philosophically

PHL 431. CONTEMPORARY PHILOSOPHY **4 sh**

Students become acquainted with philosophical trends in the 20th century and develop appropriate skills of inquiry. The course surveys the changing landscape of philosophy in this volatile century and introduces students to key figures who have shaped that landscape.

PHL 432. AMERICAN PHILOSOPHY **4 sh**

Focusing on the rich heritage of 19th- and 20th-century American thought from such figures as Emerson, Thoreau, Pierce, James, Dewey and others, this course emphasizes the originality of American philosophy and its continuing relevance.

PHL 433. MARX, DARWIN AND FREUD **4 sh**

These revolutionary makers of the modern mind - Marx, Darwin and Freud - have had enduring influence on subsequent thought in such diverse fields as philosophy and politics, biology and religion, sociology and psychology. This course examines their work in light of more recent attempts to incorporate, reform and extend their insights.

PHL 461. INTEGRATIVE TUTORIAL **4 sh**

This capstone course integrates the student's understanding of the history, issues and demands of philosophy via readings, class discussion and individual mentoring projects with philosophy faculty. It culminates with a final project on a topic chosen by the student which requires substantial philosophical research, writing and reflection and is evaluated by all members of the department. Offered fall of senior year.

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PHL 471. SEMINAR: SPECIAL TOPICS **4 sh**

PHL 481. INTERNSHIP IN PHILOSOPHY **1-4 sh**

The internship provides work experience in a setting that is rich with practical philosophical problems. The goal is to enrich the student's appreciation of the link between philosophy and life. Offered on an individual basis when suitable opportunities can be arranged. Permission of the department is required.

PHL 491. INDEPENDENT STUDY **1-4 sh**

Physical Education

Chair, Department of Health and Human Performance: Professor J.P. Brown

Professors: Beedle, Calhoun, White

Associate Professor: Davis

Assistant Professors: Morningstar, Parson, C. Smith

Instructors: Kennedy, Reilly, Stevens

The Physical Education curriculum located within the Health and Human Performance Department is designed to prepare students to become teachers. The program is broad-based and includes evaluating and improving the student's psychomotor and cognitive skills through a wide range of activity courses, specialized theory courses and continued opportunity for applying these skills and concepts in educational and laboratory settings.

Through this study students gain knowledge of the concepts and skills related to teaching sport and physical activity. Graduates in the major are successful teachers and coaches and many pursue graduate degrees.

A major in Physical Education requires the following courses:

DAN 115	Folk, Square and Social Dance	1 sh
Select any activities course		1 sh
PED 125	Skills and Activities for Teaching	3 sh
PED 211	History/Foundations of Sport/Physical Education	4 sh
PED 305	Legal Aspects	2 sh
PED 310	Motor Learning Theory for Teaching and Coaching	4 sh
PED 321	Biomechanics	4 sh
PED 341	Theory of Coaching	2 sh
PED 360	Elementary Physical Education (K-6)	4 sh
PED 401	Adapted Physical Education	2 sh
PED 410	Organization and Administration	4 sh
PED 411	Measurement and Evaluation	4 sh
HED 220	First Aid	1 sh
ESS 422	Physiology of Exercise	4 sh
BIO 161	Human Anatomy	4 sh
BIO 162	Human Physiology	4 sh
TOTAL		48 sh

Students desiring **teacher licensure in physical education** must also take the professional studies requirements listed for Special Subjects areas (K-12) under Education. (EDU 450 is not required.)

The Health Education endorsement (for students with teacher licensure) requires the following courses:

EDU 427	Materials and Methods of Teaching Health and Safety	4 sh
Sixteen hours chosen from the following:		16 sh
HED 321	Health Services and Consumerism	
HED 324	Nutrition	
HED 325	Substance Abuse and Human Behavior	

HED 326 Human Sexuality
HED 421 Chronic and Acute Diseases

TOTAL **20 sh**

A minor in Physical Education requires the following courses:

Four courses chosen from one-hour skills classes	4 sh or
PED 125 Skills and Activities for Teaching and one skills course	
PED 310 Motor Learning Theory for Teaching and Coaching	4 sh
PED 360 Elementary Physical Education (K-6)	4 sh
EDU 423 Materials and Methods of Teaching Physical Education	4 sh
PED 341 Theory of Coaching	2 sh

TOTAL **18 sh**

PED 100. TENNIS **1 sh**

Students learn rules, skills and strategy of tennis. Offered fall and spring.

PED 101. RACQUETBALL **1 sh**

Students learn rules, skills and strategy of racquetball. Offered fall and spring.

PED 102. GYMNASTICS **1 sh**

Students learn a variety of floor and apparatus gymnastics skills. Offered as available.

PED 103. RECREATIONAL SPORTS **1 sh**

Students learn rules, skills and strategy of a variety of recreational sports, including archery, badminton and paddle tennis.

PED 105. GOLF, BEGINNING AND INTERMEDIATE **1 sh**

Students learn rules, skills and strategy of golf. Must have personal transportation. Offered fall and spring. Special fee: \$30.

PED 106. BEGINNING SWIMMING AND EMERGENCY WATER SAFETY **1 sh**

An introduction to basic swimming techniques and general water safety instruction, including how to respond effectively in a water emergency. The goal is to create an awareness of causes and prevention of water accidents. Beginning Swimming and Emergency Water Safety certificate given. Special fee: \$13.

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PED 107. LIFEGUARD TRAINING **3 sh**

Students gain knowledge and skills for aquatic safety and non-surf life-guarding, first aid, professional rescuer CPR and head life-guarding. Students will receive Red Cross certification upon successful completion. Prerequisites: strong swimming skills. Special fee: \$28.

PED 108. BASKETBALL **1 sh**

Students learn rules, skills and strategy of basketball.

PED 109. CONDITIONING/WEIGHT TRAINING **1 sh**

Progressive development of physiological fitness designed to meet the needs of the individual student, including weight and cardiorespiratory training.

PED 110. SOFTBALL **1 sh**

Students learn rules, skills and strategy of softball.

PED 111. AEROBIC CONDITIONING **1 sh**

Students have the opportunity to improve their physical fitness level through aerobic activities using correct techniques. Offered as available.

PED 112. SOCCER **1 sh**

Students learn rules, skills and strategy of soccer.

PED 113. VOLLEYBALL

1 sh

Students learn rules, skills and strategy of volleyball.

PED 116. OUTWARD BOUND EXPERIENCE

1-3 sh

This is a course in wilderness survival, including physical survival skills, fitness, cognitive and emotional skills and study of the natural world. Offered as personnel is available or Independent Study.

PED 117. EQUESTRIAN TRAINING I, BEGINNER

1 sh

Students learn grooming, basic anatomy of the horse and first aid care, parts of the hoof, tacking up, mounting, dismounting, turning left and right, how to properly sit on a horse, proper use of the rider's aids, safety issues, walking and trotting on the flat and riding basic ring figures. Personal transportation, work boots, jeans and riding helmet required. Special fee \$400. Offered as available.

PED 118. EQUESTRIAN TRAINING II, NOVICE

1 sh

Students learn about veterinary care and disease: some breeds and colors of horses will be discussed in detail: walk, trot and canter work: ring figures, trotting poles: jumping position is introduced: refining the use of riders aids: and communication with the horse. Personal transportation, work boots, jeans and riding helmet required. Prerequisite: PED 117 or permission of instructor. Special fee \$400. Offered as available.

PED 125. SKILLS AND ACTIVITIES FOR TEACHING

3 sh

Students learn skills and techniques for selected activities taught in public school physical education. Learning experiences include analyzation, organization and evaluation methods. Activities will be chosen from archery, badminton, bowling, golf, racquetball, weight training, volleyball, soccer, tennis and other team sports. As public school needs change, the curriculum for this course may be altered. Offered spring.

PED 208. WATER SAFETY INSTRUCTOR (WSI)

3 sh

Detailed study of methods and materials used to teach Red Cross swimming and aquatics safety courses. Successful completion qualifies WSI's to teach infant and pre-school aquatics, progressive swimming courses, basic water safety and emergency water safety. Prerequisites: minimum age of 17, strong swimming skills, current certification for Emergency Water Safety or Lifeguard Training. Special fee: \$23.

PED 209. SKIN AND BASIC SCUBA DIVING

2 sh

Students learn the art of skin and scuba diving, including the physics, physiology and mechanics of diving: safe diving practices: marine life and environment: dive planning and various aspects of sport diving. Completion of all requirements leads to P.A.D.I. open water certification. Equipment requirements: mask, fins and snorkel. Prerequisites: minimum age of 15, pass a swimming test, medical exam and payment of special fee before scuba work begins. Special fee: \$200.

PED 211. HISTORY/FOUNDATIONS OF SPORT/PHYSICAL EDUCATION

4 sh

An introduction to the philosophical, psychological and sociological foundations and the history of physical education, including current issues, trends and the economic impact of sport and fitness on society. Offered fall.

PED 217. EQUESTRIAN TRAINING III, INTERMEDIATE

1 sh

Students learn advanced conformation and physiology of the horse and equine nutrition. Training Level dressage tests will be covered in detail and ridden. Students will engage in more refinement of the ring figures: walk, trot, and canter work with trotting poles. An introduction to crossrails and jumping a course will complete this training. Personal transportation, work boots, jeans and riding helmet required. Prerequisite: PED 118 or permission of instructor. Special fee \$400. Offered as available.

PED 218. EQUESTRIAN TRAINING IV, ADVANCED

1 sh

Equine selection and training the green/unschooled horse, equine reproduction, hand

galloping, gymnastic jumping, and with instructor permission, schooling the horse over varied terrain and hill work will comprise this course. Personal transportation, work boots, jeans and riding helmet required. Prerequisite: PED 217 or permission of instructor. Special fee \$400. Offered as available.

PED 265. OFFICIATING 2 sh

This course provides a thorough study of the rules and mechanics of sport officiating. Practical experience in officiating may be provided at the community, Little League, middle school and junior varsity levels. Offered as needed.

PED 305. LEGAL ASPECTS 2 sh

This course provides a study of the legal environment of leisure, sport, health and school organizations, emphasizing applications of tort, criminal, employment, contract, property and constitutional law. Students learn the principles of risk management and relevant applications and discuss current legislation affecting the field. Offered fall and spring.

PED 309. ADVANCED OPEN WATER SCUBA 2 sh

The Advanced Open Water Scuba course is offered through certified and insured adjunct P.A.D.I. instructors. This course is designed to expand the knowledge base and skills acquired in PED 209. Students will complete a detailed study of all the topics covered in Basic Scuba. In addition, they will develop a knowledge base and skills for deep diving, night diving, underwater navigation, search and recovery and rescue diving. The student will receive P.A.D.I. Certifications in Advanced Open Water and Rescue Diving upon successful completion of the course. Equipment requirements: mask, fins and snorkel. Prerequisite: P.A.D.I. Open Water Certification or equivalent. Special fee: \$275.

PED 310. MOTOR LEARNING THEORY FOR TEACHING AND COACHING 4 sh

This course provides Physical Education teachers and coaches knowledge and understanding of how learning and optimum performance of motor skills occur. Study of the characteristics and interactions between student/athlete, teacher/coach and the learning environment coupled with synthesis of recent research, experimentation and analysis enables participants to teach motor skills efficiently. Prerequisites: PED 125, 211 or permission of the instructor. Offered spring.

211

PED 321. BIOMECHANICS 4 sh

Students study the musculoskeletal system and biomechanics from the point of view of Physical Education activities, exercise/sports injuries and sports skills. Laboratory activities include the use of motion analysis software for projectile analysis, gait analysis, vertical jump analysis, conservation of angular momentum, analysis of lifting and calculation of center of gravity. This course requires a two-hour laboratory. Prerequisite: Bio 161. Offered fall and spring.

PED 341. THEORY OF COACHING 2 sh

Provides a thorough study of the role of coaches in the school and community, including coaching philosophy, ethics, relationships, motivation and responsibilities. Offered fall.

PED 360. ELEMENTARY PHYSICAL EDUCATION (K-6) 4 sh

This class is designed to prepare students to teach physical education in grades K-6. This preparation includes knowledge of movement education, motor skills, skill analysis and pedagogy. Clinical hours in public schools are required. Prerequisite: PED 211. Offered spring.

PED 401. ADAPTED PHYSICAL EDUCATION 2 sh

This course provides Physical Education teachers knowledge and understanding of current legislation, techniques and methods of teaching physical activities to individuals with handicapping conditions through both lecture and practical experience. Prerequisite: PED 360. Offered spring.

PED 410. ORGANIZATION AND ADMINISTRATION**4 sh**

A study of the organizational and administrative techniques needed to design and implement programs in leisure, sport and Physical Education settings, including organizational structure and theories, leadership styles, decision-making, finance management, purchasing, public relations and tournament organization. Offered spring.

PED 411. MEASUREMENT AND EVALUATION**4 sh**

Students learn to organize and interpret data from tests with and without the use of software packages. Also includes the study and administration of youth and adult physical fitness tests, sports skill tests and an overview of psychosocial testing. Prerequisites: PED 125, 211. Offered fall.

PED 491. INDEPENDENT STUDY**1-4 sh****PED 499. RESEARCH IN PHYSICAL EDUCATION****1-4 sh**

Physics

Chair, Department of Physics: Associate Professor P. Das

Acting Chair: Professor F. Harris

Associate Professors: Agnew, D'Amato

Assistant Professors: Altmann, Crider, Hargrove-Leak, Kamela

Laboratory Manager: D. Thompson

Physics is the great intellectual web that underlies our understanding of the universe. Not only is a background in physics fundamental for all scientists, but it also develops a powerful set of mental tools that are invaluable in any field. Our majors pursue research into the mysteries of deep space, the subatomic world and the fascinating physics of everyday objects. They are also successful in business, engineering and a myriad of other careers thanks to the quality of mind that they develop while studying the most profound and engaging material there is - physics.

One of the great strengths of Elon's physics program is the close working relationship between faculty and students. All students are encouraged to be involved in research activities. Currently, these include a study of particle physics, the microscopic properties of crystals, simulation of mechanical and dynamical systems, the history and philosophy of science, and many other projects. The department is very interdisciplinary with experience in science pedagogy, neuroscience, computational theory, engineering, astronomy, geology and environmental studies. Majors and minors can expect a diverse and interesting range of opportunities for course work and research both within the traditional realm of physics and across disciplinary boundaries.

Our major course of study begins with a three-semester sequence that ranges from mechanics through electricity to basic nuclear physics and particle theory. Building on this base, we offer courses in the advanced theory of electromagnetic phenomena, the mysterious world of quantum mechanics and a wide range of other topical courses, including classical mechanics, mathematical physics, circuit design, thermodynamics, field theory, statistical mechanics, etc.

The Department of Physics offers A.B., B.S., and Engineering Physics degrees as well as a minor in physics. All students interested in majoring or minoring in physics should take PHY 113 in the fall semester of their freshman year.

If you are fascinated by the mysteries of the universe and excited by observation, problem solving and creative thought, then the Department of Physics is the place for you.

A Bachelor of Arts degree in Physics requires the following courses:

PHY 113	General Physics I with Calculus	4 sh
PHY 114	General Physics II with Calculus	4 sh
PHY 213	Introduction to Modern Physics	4 sh
PHY 301	Classical Mechanics and Dynamical Systems	4 sh
PHY 311	Classical Electrodynamics	4 sh
PHY 312	Electricity, Magnetism and Field Theory	4 sh
PHY 411	Quantum Mechanics	4 sh
MTH 121	Calculus and Analytic Geometry I	4 sh
MTH 221	Calculus and Analytic Geometry II	4 sh
MTH 321	Calculus and Analytic Geometry III	4 sh
TOTAL		40 sh

A Bachelor of Science degree in Physics requires the following courses:

PHY 113	General Physics I with Calculus	4 sh
PHY 114	General Physics II with Calculus	4 sh
PHY 213	Introduction to Modern Physics	4 sh
PHY 301	Classical Mechanics and Dynamical Systems	4 sh
PHY 311	Classical Electrodynamics	4 sh
PHY 312	Electricity, Magnetism and Field Theory	4 sh
PHY 411	Quantum Mechanics	4 sh
PHY 397-8	Physic Lab-Seminars	4 sh
MTH 121	Calculus and Analytic Geometry I	4 sh
MTH 221	Calculus and Analytic Geometry II	4 sh
MTH 321	Calculus and Analytic Geometry III	4 sh
PHY 499	Research	1 sh

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Eight hours electives from the following:

(one course should be taken during the spring of the sophomore year): 8 sh

PHY 211-212 Circuit Analysis/Lab

PHY 271 Computational/Calculational Methods

PHY 302 Statistical Mechanics and Thermodynamics

PHY 371 Astrophysics

PHY 412 Relativity and Cosmology

PHY 471 Special Topics in Physics

Competence in computer programming must be demonstrated.

TOTAL **53 sh**

A Bachelor of Science degree in Engineering Physics: See requirements listed under Engineering.

A minor in Physics requires the following courses:

PHY 113	General Physics I with Calculus	4 sh
PHY 114	General Physics II with Calculus	4 sh

PHY 213	Introduction to Modern Physics	4 sh
Select two Physics courses at the 300-400 level		8 sh

TOTAL	20 sh
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PHY 101. CONCEPTUAL PHYSICS **4 sh**

This course provides an introduction to the major ideas in both classical and modern physics. Students will be introduced to experiments of the ancient Greeks, Renaissance scholars and classical natural philosophers. The formulation of gravitational and mechanical theories, thermodynamics, the particle nature of matter and aspects of elementary electromagnetism will be included. Twentieth century perspectives including the theory of relativity, quantum mechanics and chaos will be studied. Laboratory included.

PHY 102. INTRODUCTION TO ASTRONOMY **4 sh**

Astronomy examines the nature of light, astronomical instruments and our attempts to understand the origin of our solar system and its constituents: the sun, planets, asteroids, comets and meteors. Laboratory included. Offered fall and spring.

PHY 103. INTRODUCTION TO GEOLOGY **4 sh**

This geology course includes a study of the nature and origin of rocks and minerals, evolution of the landscape, plate tectonics, coastal dynamics and geologic time. Laboratory included. Offered fall and spring.

PHY 105. THE PHYSICS OF SOUND **4 sh**

This course provides an introduction to oscillations and waves with applications to sound. It examines the scientific basis for "musical sound" the production of sound in musical instruments, recording studios' use of the properties of sound, and the acoustics of concert halls. Laboratory included. Offered fall and spring.

PHY 110. ENERGY AND THE ENVIRONMENT **4 sh**

This course provides an introduction to energy concepts and the basic modes of energy production and use, focusing on environmental problems that are a consequence of such activities. Laboratory included. Offered fall and spring.

PHY 111, 112. GENERAL PHYSICS I AND II (each semester) **4 sh**

Designed for students majoring in the biological and/or health-related sciences, this survey of classical and modern physics includes mechanics, waves, heat, electricity, magnetism, optics, and atomic and nuclear physics. Labs included. Prerequisite: MTH 100 or placement exemption. Prerequisite for PHY 112: PHY 111. PHY 111 offered fall; PHY 112 offered spring.

PHY 113, 114. GENERAL PHYSICS I AND II WITH CALCULUS (each semester) **4 sh**

This survey of topics in classical physics is designed for students majoring in math, physics or chemistry or planning to transfer into an engineering program. Topics include kinematics, dynamics, thermodynamics, electrostatics, electrodynamics and waves. Labs included. Prerequisite for PHY 114: PHY 113. Corequisite: MTH 121. PHY 113 offered fall; PHY 114 offered spring.

PHY 117-118. FRESHMAN PHYSICS LAB

This one-year sequence of laboratory experiences accompanies either PHY 111, 112 or 113, 114. PHY 117 (which must be taken at the same time as PHY 111 or 113) covers mechanical systems and thermodynamics. PHY 118 (which must be taken at the same time as PHY 112 or 114) explores the world of electricity and magnetism as well as geometrical optics. PHY 117 is taught in fall; PHY 118 is taught in spring. Corequisite PHY 111, 112 or 113, 114.

PHY 211. CIRCUIT ANALYSIS **3 sh**

This course is an introduction to the theory, analysis and design of electric circuits.

Studies include circuit parameters and elements: voltage, current, power, energy, resistance, capacitance and inductance. Also included is the application of Kirchhoff's laws to simple and complex circuits and the study of the steady-state and transient response of circuits to pulse, step and periodic inputs. Prerequisites: MTH 221 and PHY 114. Corequisite: EGR/PHY 212.

PHY 212. CIRCUIT ANALYSIS LAB

1 sh

This course involves laboratory application of concepts and principles discussed in EGR/PHY211. Corequisite: EGR/PHY 211.

PHY 213. INTRODUCTION TO MODERN PHYSICS

4 sh

A continuation of PHY 113 and PHY 114, this course provides further study of wave dynamics, special relativity, early quantum mechanics, wave mechanics and an introduction to solid state and nuclear physics. Laboratory included. Prerequisite: MTH 221. Offered fall.

PHY 301. CLASSICAL MECHANICS AND DYNAMICAL SYSTEMS

4 sh

In this introduction to Lagrangian and Hamiltonian treatments of classical mechanics, students explore variational principles, conservation laws, contemporary approaches to dynamical systems and topics in chaos theory. Laboratory included. Prerequisite: PHY 114. Offered spring of alternate years.

PHY 302. STATISTICAL MECHANICS AND THERMODYNAMICS

4 sh

This study covers statistical methods, the concept of the ensemble and statistical averages, and explores thermodynamics using a theoretical progression from statistical analysis to thermodynamic variables. In-depth studies include conservation laws and thermodynamical variables such as entropy and free energy. Laboratory included. Prerequisite: PHY 301.

PHY 305. STELLAR ASTRONOMY

4 sh

Stellar astronomy involves study of the universe beyond the solar system, including stars, clusters, stellar evolution, variable stars, the Milky Way and other galaxies, quasars and cosmological models. Satisfies non-laboratory General Studies requirement. No credit for Physics major or minor. Prerequisite: MTH 100 or higher. Offered winter.

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PHY 310. ENGINEERING THERMODYNAMICS

4 sh

Introduction to the concept of energy and the laws governing the transfers and transformations of energy. Emphasis on thermodynamic properties and First and Second Law analysis of systems and control volumes. Integration of these concepts into the analysis of basic power cycles is introduced. Prerequisites: MTH 321 and PHY 114.

PHY 311. CLASSICAL ELECTRODYNAMICS

4 sh

Classical electrodynamics involves the study of electrostatics (including image methods and electric fields in the presence of dielectric media), vector analysis, continuity conditions for field quantities at interfaces, and magnetism and magnetostatics. Laboratory included. Prerequisite: PHY 213. Offered fall of alternate years.

PHY 312. ELECTRICITY, MAGNETISM AND FIELD THEORY

4 sh

This course includes Maxwell's equations and continuation of electrodynamics and explores the natural connection of field theory and electrodynamics and basic mathematical tools, including tensor analysis. By experiments and numerical simulation, students investigate electromagnetic radiation and fields. Laboratory included. Prerequisite: PHY 311. Offered spring of alternate years.

PHY 397- 398. PHYSICS LAB/SEMINAR

2 sh each

The Junior Lab/Seminar is a two-semester course in laboratory techniques at an advanced level designed for Physics and Engineering Physics majors. It will include instruction in the use of research equipment such as AFM, STM, NMR, high vacuum, LEED, Auger Spectrometer, UV/VIS Spectrophotometer, cryogenics, and lock-in

amplifiers. Introduction to journal research, a focused research project and a seminar presentation of results will be required. Offered fall and spring.

PHY 411. QUANTUM MECHANICS

4 sh

Study of quantum mechanics includes basic mathematical underpinnings of quantum formalisms and treats several basic problems including Hydrogen-like atoms and lasers in depth. Laboratory included. Prerequisite: PHY 301. Offered fall of alternate years.

PHY 412. RELATIVITY AND COSMOLOGY

4 sh

This course begins by examining fundamentally electrodynamical problems out of which special relativity was born. Students read Einstein's original paper and study the classical paradoxes in depth. Discussion of cosmological problems includes black holes, galactic red shift and early universe theory. Some aspects of the general theory of relativity are also introduced. Prerequisites: PHY 311 and 312.

PHY 471. SPECIAL TOPICS IN PHYSICS

4 sh

These contemporary topics include, but are not limited to, chaos theory and nonlinear dynamics, solid state and condensed matter physics, optics, advanced quantum mechanics and particle physics. Prerequisite: permission of the instructor.

PHY 499. RESEARCH

1 sh

This semester-long supervised research project involves experimental, numerical or theoretical investigation of a single problem, culminating in a detailed report describing the methods, results and analysis performed including a publication style abstract of the research. Senior majors only. Offered fall, winter and spring.

Political Science

Chair, Department of Political Science and Public Administration: Professor C. Brumbaugh

Professors: Taylor, Zarzar

Associate Professors: R. Anderson, Morgan, Roselle

Assistant Professors: Spray, Vercellotti

Adjuncts: Beckman, Ciriano, Colbert, Harviel, Lewis, Pettis, Simmons, Sink, Sorensen

Political Science seeks to understand the ideas, individuals and institutions engaged in making public policies that influence the lives of people in communities ranging from local to global. Courses investigate current issues and opinions, the process by which voters or leaders make decisions, the behavior of organized groups and governmental agencies, the relationships between nations and classic questions of how societies balance freedom, social justice, order and efficiency.

Students in this discipline are encouraged to develop critical reading, writing and research skills (often using computer programs); participate in role-playing simulations of local governments, legislatures, the United Nations and international relations; work as interns at the local and state level in government agencies, election campaigns and law firms; and spend a semester in Washington, D.C., working in executive and judicial agencies, the U.S. Congress, interest groups and international organizations.

The department offers majors in Political Science and Public Administration as well as minors in these fields. Students can concentrate their course work in one or more subfields: American government, international relations, comparative politics, public administration, law and political theory. These programs help prepare students to enter graduate and law school, and pursue a wide range of careers in legislative, executive and judicial agencies; business; teaching; journalism; interest group advocacy; campaign management and international public service.

A major in Political Science requires the following courses:

POL 111	American Government	4 sh
POL 220	Research Methods in Political Science	4 sh
POL 461	Senior Seminar in Political Science	4 sh
One course chosen from the following:		4 sh
POL 141	International Relations	
POL 261	Comparative Politics	
One course selected from the following:		4 sh
POL 300	Introduction to Political Thought	
POL 303	Democratic Theory	
POL 304	Theorists of Non-Violence	
Twenty-four additional hours in Political Science		24 sh
TOTAL		44 sh

It is strongly recommended that Political Science majors, in consultation with their advisors, select a subfield or topical concentration of at least 12 semester hours at the 300-level and above. Subfield and concentration courses will be chosen from among the 24 elective hours. With the approval of the student's advisor, up to four hours from outside the Political Science and Public Administration department may be applied toward the concentration. No more than eight internship hours may be applied to the major.

A minor in Political Science requires the following:

POL 111	American Government	4 sh
Sixteen semester hours in Political Science		16 sh
TOTAL		20 sh

POL 111. AMERICAN GOVERNMENT

4 sh

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American Government serves as an introduction to the national political system including the legislative, executive and judicial branches; the Constitution; political parties; interest groups; public opinion and public policy issues. Offered fall and spring.

POL 112. NORTH CAROLINA STUDENT LEGISLATURE

1 sh

This is an experiential course which promotes active participation in the NCSL debate of public issues and organizational involvement at the university and state-wide level. Offered fall and spring.

POL 114. MODEL UNITED NATIONS

1 sh

Through experiential learning activities, students gain insight into the workings of the United Nations, diplomacy and international politics. Offered fall and spring.

POL 116. LOCAL GOVERNMENT SIMULATION

4 sh

This course examines the structure and functioning of local governments and applies that understanding in a simulation of local government issues in which students assume the roles of city council members, planning commission members, organizational leaders, business owners, citizen groups and the media. Offered winter.

POL 141. INTERNATIONAL RELATIONS

4 sh

This course gives students a basic appreciation for our world and examines political issues such as the role of power and international law in the international system and economic, social and cultural features of the world. Offered fall and spring.

POL 220. RESEARCH METHODS IN POLITICAL SCIENCE

4 sh

This course introduces methodologies used in political science research. It focuses on concept formation, research design for problem solving, the measurement of data and

data analysis. Political Science and Public Administration majors should take this course in their sophomore year. Offered fall and spring.

POL 222. STATE AND LOCAL GOVERNMENT AND POLITICS **4 sh**
This course focuses on the structure and functioning of the state and local government and their roles within the American federal system. Offered fall and spring.

POL 224. ENVIRONMENTAL POLICY AND LAW **4 sh**
This course focuses on the policy processes and institutional settings for environmental policy formation and governmental action. It deals with the role of the courts, Congress and federal agencies in the development, implementation and evaluation of environmental policy. Offered spring.

POL 231. PUBLIC ADMINISTRATION **4 sh**
This course introduces the student to the complexities of administering government activities and emphasizes the basic principles of organizations, decision making, fiscal management, personnel management and other forms of action in the public sector. (Cross-listed with PUB 231.) Offered fall and spring.

POL 261. COMPARATIVE POLITICS **4 sh**
This introduction to the central concepts of comparative politics and to the major types of contemporary political systems may include Britain, Germany, Japan, Nigeria, China, Mexico and the post-Soviet independent states of Eurasia. Offered spring.

POL 300. INTRODUCTION TO POLITICAL THOUGHT **4 sh**
In a critical introduction to the great political thinkers, discussion spans from Plato to Rousseau. Offered every third semester.

POL 303. DEMOCRATIC THEORY **4 sh**
This course examines conceptions, models and themes of democracy around the world using a comparative approach with special emphasis on models of democracy as they developed in the U.S. Offered every third semester.

218 POL 304. THEORISTS OF NON-VIOLENCE **4 sh**
Non-violent alternatives to violence in resolving interpersonal and intergroup conflicts will be explored in light of the various Eastern and Western moral and religious traditions and the thought of such thinkers as Mahatma Gandhi, Martin Luther King, Jr. and others. Offered every third semester.

POL 321. PUBLIC OPINION POLLING **4 sh**
The goal of this course is for students to learn how to supervise a public opinion poll and apply survey research theory to the Elon Poll. Students participate as interviewers in several polls and learn survey design, computer programming, analysis of poll data and how to write about survey results. Offered fall.

POL 322. NORTH CAROLINA POLITICS AND POLICY **4 sh**
This course examines North Carolina's politics and public policy development from a broad historical perspective, analyzes how state government formulates and administers legislation and explores contemporary policy issues facing the state.

POL 323. CONSTITUTIONAL LAW **2 sh**
Using a case study approach, this course focuses on American Constitutional structures: separation of powers, judicial review and federalism.

POL 324. CIVIL LIBERTIES **2 sh**
The focus of this course is on individual rights guaranteed by the Bill of Rights.

POL 325. THE PRESIDENCY **4 sh**
A study of the contemporary presidency emphasizing the organization of the office, its relationship to other structures in American politics and its role in the policy-making process. Offered every other year.

POL 326. THE CONGRESS**4 sh**

Topics of study cover the policy-making process in Congress, focusing on party leadership, the committee system and the relationship between the Congress and the presidency, interest groups and the executive branch. Discussion also includes congressional reform proposals. Offered every other year.

POL 328. PUBLIC POLICY**4 sh**

This study of public policy-making emphasizes policy content and focuses on the stages and options in the process, especially the complex relationships between the branches and levels of government within the structure of federalism. Students trace the development of selected public policy positions and focus on options available to contemporary decision makers. (Cross-listed with PUB 328.) Offered fall.

POL 329. POLITICAL BEHAVIOR**4 sh**

This course focuses on political life from a micro perspective by examining how political attitudes and behaviors are learned and how they affect our political choices, especially in regard to political socialization and electoral behavior. Offered every other year.

POL 334. GIS APPLICATIONS FOR ADMINISTRATION AND PLANNING**4 sh**

Geographic Information Systems (GIS) is an indispensable tool in public policy research, analysis and implementation. Students will develop expertise in the use of GIS software through the use of case studies, specific research projects and practical applications of this new technology in both the public and nonprofit sectors. (Cross-listed with PUB 334.) Offered every other year.

POL 335. ETHICS IN THE PUBLIC SECTOR**4 sh**

The course seeks to develop awareness of the responsibilities associated with discretionary power; to develop an understanding of the ethical standards, values and virtues associated with civil service and to build skills in using moral imagination and ethical reasoning to assess and deal effectively with ethical dilemmas that arise in public service. (Cross-listed with PUB 335.) Offered fall.

POL 342. U.S. FOREIGN POLICY**4 sh**

This course covers the foreign relations, foreign policy process and international politics of the United States. Offered every other year.

POL 343. INTERNATIONAL LAW AND ORGANIZATIONS**4 sh**

This course focuses on the role of international law and organizations in determining patterns of international behavior with special attention to the United Nations. Offered every other year.

POL 344. INTERNATIONAL ENVIRONMENTAL POLICY**4 sh**

This course addresses environmental issues that cross national boundaries, such as global warming, natural resource scarcity, waste disposal and issues of international trade and the environment. It is useful for students of International Studies and Environmental Studies as well as Political Science.

POL 345. INTERNATIONAL TERRORISM**4 sh**

This course examines the genesis, typology and impact of international terrorism on nation states and the international community. It also explores the variety of approaches used, especially by the United States, to deal with international terrorism. Offered fall and spring.

POL 359. POLITICAL COMMUNICATIONS**4 sh**

This examination of political communications processes uses a comparative perspective and emphasizes the role of media in the U.S., Europe, Eurasia and developing countries.

POL 363. POLITICS OF ASIA**4 sh**

This exploration of the politics of Asia after World War II analyzes political and economic processes in the cases of Japan, China and newly industrializing countries.

POL 364. POLITICS OF EUROPE**4 sh**

This course explores the politics of Eastern and Western Europe since World War I.

POL 365. POLITICS OF EURASIA**4 sh**

This course analyzes the rise and fall of the Soviet Union as a political entity and studies the newly independent countries of the former Soviet Union in some depth.

POL 366. MIDDLE EAST POLITICS**4 sh**

This course studies Middle Eastern political dynamics and institutions, contemporary issues and problems of selected Middle Eastern and North African countries.

POL 367. POLITICS OF AFRICA**4 sh**

This course focuses on nation building and major factors influencing contemporary politics in selected African states. It emphasizes the legacy of colonialism/independence struggles, traditional loyalties, the political/social/economic origins of conflict/coalitions/coups, political participation, institutionalization/control, the destabilizing influences of class/ethnic/elitist/racial differences and African states in the world order.

POL 368. LATIN AMERICAN POLITICS**4 sh**

Central America and Mexico receive emphasis in this study of the political dynamics, governmental structures and contemporary issues of selected countries of Latin America.

POL 375. POLITICAL SCIENCE IN LONDON**4 sh****POL 376. WASHINGTON CENTER SEMINAR****1-4 sh**

Students learn first hand from speakers, on-site visits and other experiential opportunities in Washington, D.C., and other locations through the Washington Center. Course requirements include readings, writing assignments and collaborative work dealing with a wide variety of topics. Prerequisite: permission of department. Offered every semester.

POL 382. CAMPAIGN MANAGEMENT**4 sh**

This course provides a practical study of how to run an election campaign with attention to setting up, staffing and financing a campaign office, organizing events, media relations, campaign technology, polling, advertising and getting out the vote. Students spend significant time as an intern for a candidate of their choice and reflect on their experience. Offered fall of even-numbered years.

POL 428. COMPARATIVE PUBLIC POLICY**4 sh**

Focusing primarily on various countries in Europe and Eurasia, with comparisons to the United States, this course examines the differences in the formation and implementation of a variety of public policies. It also explores differences in political culture, economic structure, political institutions and national approaches to domestic social policies and how those differences impact the policy process and policy content. (Cross-listed with PUB 428.) Offered every other year.

POL 431. POLICY ANALYSIS AND PROGRAM EVALUATION**4 sh**

Two aspects of the public policy process are covered in this course. Policy analysis focuses on the formulation stage of the policy process and attempts to isolate both the intended and many unintended effects of public policy. Program evaluation determines the degree to which a program is meeting its objectives and considers problems and side effects. Prerequisite: POL 111 or permission of instructor. (Cross-listed with PUB 431.) Offered spring.

POL 433. URBAN POLITICS**4 sh**

Advanced study in areas of the Urban Politics field centers on varying topics to be decided by the instructor. Selections might include urban management, urban public policy, urban problems, etc. Prerequisite: POL 222 or permission of instructor. (Cross-listed with PUB 433.)

POL 461. SENIOR SEMINAR IN POLITICAL SCIENCE**4 sh**

The capstone experience for senior Political Science majors involves close review of the discipline's conceptual approaches to the study of political issues, discussion and development of research strategies. Students must also present a work of original scholarship. Prerequisite: senior majors only. Offered fall and spring.

POL 481. INTERNSHIP IN POLITICAL SCIENCE**1-16 sh**

Work experience in a partisan, nonprofit, business, governmental or legal setting requires students to establish experiential goals and to reflect on the learning experience. Offered on an individual basis when suitable opportunities can be arranged.

POL 485. WASHINGTON INTERNSHIP IN POLITICAL SCIENCE**1-12 sh**

Work experience in a partisan, nonprofit, business, governmental or legal setting in the Washington, D.C., area, requires students to establish experiential goals and reflect on the learning experience. Offered on an individual basis when suitable opportunities can be arranged.

POL 491. INDEPENDENT STUDY**1-4 sh****POL 492. TOPICS IN POLITICAL SCIENCE****4 sh**

This advanced course explores significant contemporary issues or developments within the discipline. Prerequisite: POL 111 or permission of the instructor.

POL 499. RESEARCH**1-4 sh**

This course is an opportunity for students to undertake an empirical or theoretical study of a topic in Political Science in collaboration with a departmental faculty member. Research projects may include a review of research literature, developing a research design, data collection and analysis, and a presentation or report when the study is completed. Prerequisite: permission of instructor. A research proposal form completed by the student in conjunction with the faculty member is required for registration. Students may register for 1-4 hours of credit per semester and may register for more than one semester of research for a total of 8 hours of research credit toward the major. Students must have a minimum 2.5 GPA and have completed 28 semester hours of undergraduate work.

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Professional Writing Studies

Coordinator: Lecturer Strickland, Director of Writing Across the Curriculum*

Professional Writing Studies is an interdisciplinary minor designed for students across the disciplines who would like to add to their majors focused study and practice in applied writing. This minor is intended not only to strengthen the writing instruction offered to students across the disciplines, but also to responsibly prepare students for the steadily increasing numbers of specialized professional, technical and medical writing positions in government agencies, industry and nonprofit organizations.

The minor is broad and flexible enough that students can formulate course sequences appealing to their specific interests. It is also structured tightly enough to effectively guide students' curricular decisions.

A required theory course prepares students to see writing broadly as a complex, highly situated form of social action and production. Three required practice courses engage students in hands-on projects where they learn to apply advanced practical writing skills within specific contexts. Finally a variety of internship experiences are possible in which students have a chance to practice what they have learned in actual disciplinary or professional contexts. Students complete their minor by taking a capstone course where they are involved in another internship experience and where they also prepare individual professional writing portfolios to illustrate their specialized writing knowledge.

The minor requires a minimum of 20 semester hours. Practice/applied courses must be chosen from at least two disciplines.

A minor in Professional Writing Studies requires the following:

Four semester hours chosen from one of the following theory courses:	4 sh
ENG 204 Survey of Professional Writing and Rhetoric	
ENG 304 Topics in Professional Writing and Rhetoric	
Twelve semester hours chosen from the following practice/applied courses; courses must be chosen from at least two disciplines:	128 sh
ART 263 Digital Art I	
ART 363 Digital Art II	
BUS 202 Business Communications	
ENG 211 Writing for the Professions	
ENG 212 Writing, Rhetoric and Interface Design	
ENG 311 Document Research, Management and Production	
ENG 318 Technical and Scientific Writing	
ENG 319 Writing Center Workshop	
HUS 412 Professional Communication	
JCM 304 Public Relations and Corporate Citizenship	
JCM 327 Corporate Publishing and Writing	
JCM 338 Magazine Publishing	
JCM 364 Web Publishing and Design	
Four semester hours from one disciplinary internship course (The course must be carefully designed as a professional writing internship and approved by the Director of Writing Across the Curriculum. Most ENG 381 or 481 courses can be designed for this purpose and approved.)	4 sh
ENG 495 Professional Writing capstone course	4 sh

TOTAL	20 sh
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*Note: The minor is jointly administered by the English department and the Interdisciplinary Writing Committee, chaired by the director of Writing Across the Curriculum, who also serves as the minor's coordinator. All questions should be referred to the coordinator.

Psychology

Chair, Department of Psychology: Professor Green
Professor: Granowsky
Associate Professors: Fromson, King, Levesque, McClearn, Pickens, Smith, Vandermaas-Peeler
Assistant Professors: Gendle, Leupold

The psychology major at Elon University presents the principles, methods and research findings of the field of psychology. Students in the major learn and practice sound research methods and are given many opportunities for exploring the breadth of the content areas in psychology. In each psychology course, students are involved in writing and speaking in the discipline. Interested students may engage in a variety of applied internship experiences and/or collaborative research with departmental faculty.

Students with a bachelor's degree in psychology have many career options. Some students enter fields such as law enforcement, court counseling, daycare, group home counseling, YMCA program work, personnel and entry level positions in mental health. Others opt to go on to graduate school in a variety of programs including clinical, counseling or school psychology, social work, special education, law and many others. Psychology majors receive both a liberal arts education and practice in the skills of research, professional writing and speaking and are therefore prepared for a variety of careers.

A major in Psychology requires the following courses:

PSY 111	General Psychology	4 sh
PSY 201	Research Methods and Statistics in Psychology	4 sh
PSY 301	Empirical Research	4 sh
PSY 461	Senior Seminar	4 sh
Two courses chosen from the following:		8 sh
PSY 212	Learning and Memory	
PSY 221	Biological Bases of Behavior	
PSY 233	Lifespan Human Development	
Two courses chosen from the following:		8 sh
PSY 312	Cognitive Psychology	
PSY 323	Social Psychology	
PSY 343	Psychology of Personality and Individual Differences	
Twelve additional semester hours in Psychology		12 sh
TOTAL		44 sh

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A minor in Psychology requires the following courses:

PSY 111	General Psychology	4 sh
One course from the following:		4 sh
PSY 212	Learning and Memory	
PSY 221	Biological Bases of Behavior	
PSY 233	Lifespan Human Development	
One course from the following:		4 sh
PSY 321	Educational Psychology	
PSY 333	Abnormal Behavior	

PSY 356 Health Psychology

PSY 363 Industrial and Organizational Psychology

Eight semester hours from Psychology courses

8 sh

TOTAL**20 sh****PSY 111. GENERAL PSYCHOLOGY****4 sh**

General psychology surveys central topics in the field, including research methodology, learning and memory processes, social psychology, psychological disorders and personality. Offered fall and spring.

PSY 201. RESEARCH METHODS AND STATISTICS IN PSYCHOLOGY**4 sh**

Students learn how to design, review and analyze psychological research. The course focuses on developing research questions, answering them using research designs and complementary data analysis techniques, and the basics of writing research reports. Prerequisites: PSY 111; MTH 112; psychology major status. Offered fall and spring.

PSY 212. LEARNING AND MEMORY**4 sh**

This course addresses models of knowledge acquisition (including classical and operant conditioning and cognitive processes), encoding and storage of information, memory retrieval and forgetting. Prerequisite: PSY 111. Offered fall or spring.

PSY 215. THE PSYCHOLOGY OF PERSONAL RELATIONSHIPS**4 sh**

The purpose of this course is to investigate personal relationships from various viewpoints of psychology (e.g., social, cognitive and biopsychological). Interactions with family members and friends will be discussed, but the emphasis will be placed on the initiation, maintenance and termination of romantic relationships.

PSY 221. BIOLOGICAL BASES OF BEHAVIOR**4 sh**

This course explores the biological foundations of such psychological processes as learning and memory, movement, sleep and emotions, as well as such abnormal conditions as schizophrenia and depression. Prerequisite: PSY 111. Offered fall or spring.

224 PSY 225. MENTAL ILLNESS AND FILM**4 sh**

Hollywood depictions of mental illness have contributed significantly to the ideas and images many individuals hold about mental illness. Students will look at some of the major types of mental illnesses (e.g., depression, sexual disorders, schizophrenia, antisocial personality disorder) and examine how they have been portrayed, for better and worse, in popular films.

PSY 233. LIFESPAN HUMAN DEVELOPMENT**4 sh**

An exploration of human development across the entire lifespan includes consideration of cognitive, social and emotional development as a complex interaction between individuals and their social and cultural environments. Prerequisite: PSY 111. Offered fall or spring.

PSY 301. EMPIRICAL RESEARCH**4 sh**

Students become familiar with the major theoretical and empirical foundations of one topic area of psychology (e.g., interpersonal attraction, memory processes, cognitive development, health psychology, organizational performance). Working in research teams under faculty direction, students devise, implement and report an original empirical investigation of a question related to the selected area of concern. Prerequisites: PSY 201; psychology major status. Offered fall and spring.

PSY 312. COGNITIVE PSYCHOLOGY**4 sh**

Cognitive psychology studies how humans represent and process information about the environment in their role as thinkers, planners, language users and problem solvers. Prerequisites: PSY 111, 201. Offered fall or spring.

PSY 315. PSYCHOLOGY OF SEX AND GENDER**4 sh**

This course focuses on the psychology of sex and gender from a feminist perspective and is organized around four themes: gender as a social construction, the importance of language and the power to name, class and cultural diversity, and knowledge as a source of social change.

PSY 321. EDUCATIONAL PSYCHOLOGY**4 sh**

Students gain an overview of research and theory in educational psychology and explore their applications in teaching and learning. Prerequisite: PSY 111 or EDU 211. Offered fall and spring.

PSY 323. SOCIAL PSYCHOLOGY**4 sh**

Topics in social psychology explore how people think about, influence and relate to one another including affiliation, aggression, altruism, attitude formation and change, attribution, compliance, conformity and persuasion. Prerequisites: PSY 111, 201. Offered fall or spring.

PSY 325. THE PSYCHOLOGY OF AMERICAN PROTEST MUSIC**4 sh**

This course is a study of the psychological impact of music used to promote social change. By necessity, this study utilizes a variety of perspectives in addition to psychological ones, including historical, socio-political and musicological. Movements covered include early labor organizations, civil rights and antiwar. Prerequisite: PSY 111.

PSY 327. THE PSYCHOLOGY OF NONVIOLENCE**4 sh**

This course is a study of the variety of means for resolving conflict, with a focus on nonviolent alternatives. Our emphasis is on the psychological impact of conflict and the means of its resolution. Topics include the impact of fear in conflict situations, psychological obstacles to resolution, Gandhian philosophy and the education of children in conflict resolution. Prerequisite: PSY 111 or permission of instructor.

PSY 331. PSYCHOLOGICAL TESTING**4 sh**

This course addresses issues connected with measuring psychological constructs such as intelligence, personality and vocational interest. Among these are the variety of techniques for assessing people's characteristics, attitudes and performance in reliable and valid ways and how this information gets used in making decisions about people's lives. In addition to basic assessment principles, first-hand experience with several psychological tests will be provided. Prerequisites: PSY 111, and one of the following: PSY 201, ECO 202, MTH 112, MTH 210, HUS 285, POL 220, SOC 216.

PSY 332. PSYCHOLOGY OF EXCEPTIONALITY**4 sh**

Students learn the measures and procedures used to evaluate exceptional children and techniques for educational intervention and remediation as they study the origins, symptoms and characteristics of exceptional children. Study covers those children who are emotionally, physically or mentally disabled, as well as those who are gifted and talented. Prerequisite: PSY 111.

PSY 333. ABNORMAL BEHAVIOR**4 sh**

In this overview of major psychological disturbances (anxiety, mood, personality, sexual and schizophrenic disorders), students examine the role of different theories, diagnostic tests and procedures in understanding illness and learn the basics of therapeutic interventions. Prerequisite: PSY 111.

PSY 343. PSYCHOLOGY OF PERSONALITY AND INDIVIDUAL DIFFERENCES**4 sh**

This course covers major modern perspectives in personality psychology including dispositional, biological, psychodynamic, self and social-cognitive theories. Students are also introduced to issues and techniques of personality testing and assessment. Prerequisites: PSY 111, 201. Offered fall or spring.

PSY 355. HUMAN PERCEPTION**4 sh**

Study in human perception includes research and theory on the structural and func-

tional characteristics of various perceptual systems, on perceptual phenomena such as depth and color perception and on other related topics. Prerequisite: PSY 111.

PSY 356. HEALTH PSYCHOLOGY

4 sh

This course focuses upon the role of psychology in a variety of medical issues: health-enhancing and health-compromising behaviors, stress and illness, patient-practitioner relationships, pain and other chronic conditions. The growing field of health psychology is explored as both an area of research and a clinical profession. Prerequisite: PSY 111.

PSY 357. CRIMINAL BEHAVIOR

4 sh

This course focuses primarily on the causes of crime, the criminal mind and the resulting social and personal costs of crime. Also addressed are various aspects of the criminal justice system, including the relevance of psychology to courtroom proceedings. Although many types of crime are explored, emphasis is placed on violent crime.

PSY 361. ANIMAL BEHAVIOR

4 sh

An investigation of animal behavior takes into account physiology, development, evolution and adaptation. Studies emphasize specialized structures and abilities which may or may not be present in humans and which confer selective advantages upon their possessors. Prerequisite: PSY 111.

PSY 363. INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY

4 sh

Psychological applications in the workplace are the focus of this course. Topics include personnel selection, leadership and motivation, job satisfaction and work performance. Prerequisite: PSY 111.

PSY 366. PSYCHOLOGY IN CULTURAL CONTEXT

4 sh

Issues in the related fields of cultural and cross-cultural psychology are considered in depth as students investigate basic psychological processes (e.g., motivation, cognition and emotion) in the context of how cultural world views and implicit value assumptions influence the development and functioning of human behavior and social interaction. Prerequisite: PSY 111.

226 PSY 371. SPECIAL TOPICS IN PSYCHOLOGY

4 sh

PSY 461. SENIOR SEMINAR

4 sh

In this capstone course, students will read primary sources (i.e., original articles) and identify and critically evaluate theoretical issues and empirical findings in the field. With faculty supervision, students will develop and present (in both written and oral formats) a thesis-level integrative literature review manuscript. Prerequisites: PSY 301 and senior status in the major. Offered fall and spring.

PSY 481. INTERNSHIP IN PSYCHOLOGY

1-4 sh

Upper-level majors apply psychological theories and techniques to actual experiences in the field. Maximum 4 semester hours toward major. Prerequisite: majors with faculty approval.

PSY 491. INDEPENDENT STUDY

1-4 sh

Prerequisites: junior/senior status and permission of the instructor.

PSY 499. RESEARCH

1-4 sh

In collaboration with a Psychology faculty member, students undertake an empirical or theoretical study of a topic in psychology. Research projects may include a review of the relevant research literature, data collection and analysis, and a presentation or report when the study is completed. Prerequisites: PSY 111, 201 and permission of instructor. A completed research proposal form completed by the student in conjunction with the faculty member is required for registration. Students may register for one to four hours of credit per semester and may register for more than one semester of research for a total of eight hours of research credit toward the major. Offered fall, winter and spring.

Public Administration

Chair, Department of Political Science and Public Administration: Professor C. Brumbaugh

Professors: Taylor, Zarzar

Associate Professors: Anderson, Morgan, Roselle

Assistant Professors: Spray, Vercellotti

Adjuncts: Colbert, Hoflund, Lewis, Vellani

The Public Administration major prepares students interested in pursuing graduate education and careers in governmental or nonprofit service agencies. Courses in the major include the study of the management functions in public agencies, governmental structures and processes, techniques used in the evaluation process and a variety of public policies. Field experiences including internships and course-linked service learning are emphasized within the major. Students develop technical competencies and theoretical understandings from courses relevant to public administration and from other disciplines as well.

A major in Public Administration requires the following courses:

PUB 231	Public Administration	4 sh
PUB 328	Public Policy	4 sh
PUB 335	Ethics in the Public Sector	4 sh
PUB 431	Policy Analysis and Program Evaluation	4 sh
PUB 461	Seminar in Public Administration	4 sh
POL 111	American Government	4 sh
POL 220	Research Methods in Political Science	4 sh
POL 222	State and Local Government and Politics	4 sh
Twelve hours selected from the following courses:		12 sh

ACC 201 Principles of Financial Accounting

BUS 303 Introduction to Managing

ECO 201 Principles of Economics

POL 325 The Presidency

POL 326 The Congress

POL 382 Campaign Management

PUB 334 GIS Applications for Administration and Planning

PUB 428 Comparative Public Policy

PUB 433 Urban Politics

Any Public Administration course 4 sh

TOTAL 48 sh

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It is strongly recommended that Public Administration majors, in consultation with their advisors, select a topical concentration of at least 12 semester hours at the 300-level and above. Concentration courses will be chosen from among the 16 elective hours. With the approval of the student's advisor, up to four hours from outside the Political Science and Public Administration department may be applied toward the concentration. No more than eight internship hours may be applied to the major. Students considering graduate school in Public Administration should take additional courses in Accounting, Economics and Business Administration.

A minor in Public Administration requires the following courses:

POL 111	American Government	4 sh
PUB 231	Public Administration	4 sh
Twelve semester hours in Public Administration courses		12 sh
TOTAL		20 sh

PUB 231. PUBLIC ADMINISTRATION**4 sh**

This course introduces the student to the complexities of administering government activities and emphasizes the basic principles of organizations, decision-making, fiscal management, personnel management and other forms of action in the public sector. Offered fall and spring.

PUB 328. PUBLIC POLICY**4 sh**

This study of public policy-making emphasizes policy content and focuses on the stages and options in the process, especially the complex relationships between the branches and levels of government within the structure of federalism. Students trace the development of selected public policy positions and focus on options available to contemporary decision-makers. Offered fall.

PUB 334. GIS APPLICATIONS FOR ADMINISTRATION AND PLANNING**4 sh**

Geographic Information Systems (GIS) is an indispensable tool in public policy research, analysis and implementation. Students will develop expertise in the use of GIS software through the use of case studies, specific research projects and practical applications of this new technology in both the public and nonprofit sectors. Offered every other year.

PUB 335. ETHICS IN THE PUBLIC SECTOR**4 sh**

The course seeks to develop awareness of the responsibilities associated with discretionary power; to develop an understanding of the ethical standards, values and virtues associated with civil service; and to build skills in using moral imagination and ethical reasoning to assess and deal effectively with ethical dilemmas that arise in public service. Offered fall.

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PUB 428. COMPARATIVE PUBLIC POLICY**4 sh**

Focusing primarily on various countries in Europe and Eurasia, with comparisons to the United States, this course examines the differences in the formation and implementation of a variety of public policies. It also explores differences in political culture, economic structure, political institutions and national approaches to domestic social policies, and how those differences impact the policy process and policy content. Offered every other year.

PUB 431. POLICY ANALYSIS AND PROGRAM EVALUATION**4 sh**

Two aspects of the public policy process are covered in this course. Policy analysis focuses on the formulation stage of the policy process and attempts to isolate both the intended and many unintended effects of public policy. Program evaluation determines the degree to which a program is meeting its objectives and considers problems and side effects. Prerequisite: POL 220 or permission of instructor. Offered spring.

PUB 433. URBAN POLITICS**4 sh**

Advanced study in areas of the urban politics field centers on varying topics to be decided by the instructor. Selections might include urban management, urban public policy, urban problems, etc. Prerequisite: POL 222 or permission of instructor.

PUB 461. SEMINAR IN PUBLIC ADMINISTRATION**4 sh**

The capstone experience for senior Public Administration majors involves review of the discipline's conceptual approaches and discussion and development of research strategies. Students must present a work of original scholarship. Prerequisite: senior majors only. Offered fall.

PUB 481. INTERNSHIP IN PUBLIC ADMINISTRATION **1-16 sh**

Work experience in a nonprofit, business, governmental or legal setting requires students to establish experiential goals and to reflect on the learning experience. Offered on an individual basis when suitable opportunities can be arranged.

PUB 485. WASHINGTON INTERNSHIP IN PUBLIC ADMINISTRATION **1-12 sh**

Work experience in a partisan, nonprofit, business, governmental or legal setting in the Washington, D.C. area, requires students to establish experiential goals and reflect on the learning experience. Offered on an individual basis when suitable opportunities can be arranged.

PUB 491. INDEPENDENT STUDY **1-4 sh**

PUB 499. RESEARCH **1-4 sh**

This course is an opportunity for students to undertake an empirical or theoretical study of a topic in public administration in collaboration with a departmental faculty member. Research projects may include a review of research literature, developing a research design, data collection and analysis, and a presentation or report when the study is completed. Prerequisite: permission of instructor. A research proposal form completed by the student in conjunction with the faculty member is required for registration. Students may register for one to four hours of credit per semester and may register for more than one semester of research for a total of eight hours of research credit toward the major. Students must have a minimum 2.5 GPA and have completed 28 semester hours of undergraduate work.

Religious Studies

Chair, Department of Religious Studies: Professor Pace
Professor: Pugh
Associate Professor: Chakrabarti
Assistant Professors: Hammer, McBride, Peters
Adjunct: L. Russell

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Religious Studies courses and the Religious Studies major and minor are designed to help students learn about one of the most basic and universal aspects of human existence. Knowing about religion helps us to better understand ourselves and the beliefs of others.

The members of the Religious Studies faculty seek to foster in students a love of learning, informed values and a spirit of tolerance. In keeping with Elon's liberal arts objectives, the program and the faculty also seek to develop the students' ability to think critically and communicate effectively, both in the discipline and in other areas of life.

A major in Religious Studies requires the following courses:

REL 101	Introduction to Religious Studies	4 sh or
REL 102	World Religions	4 sh
REL 111	The Old Testament Story	4 sh or
REL 112	Introduction to the New Testament	4 sh
REL 292	Approaches to the Study of Religion	4 sh
REL 492	Senior Seminar	4 sh
An additional six courses, at least five at the 300-400 level		24 sh

Greek 310 may be substituted for a Religious Studies course.

A minor in Religious Studies requires the following courses:

REL 101	Introduction to Religious Studies	4 sh	or
REL 102	World Religions		
REL 111	The Old Testament Story	4 sh	or
REL 112	Introduction to the New Testament		
REL 292	Approaches to the Study of Religion	4 sh	
An additional two courses in Religious Studies		8 sh	
Total		20 sh	

REL 101. INTRODUCTION TO RELIGIOUS STUDIES **4 sh**

This course considers the human religious experience and its impact throughout history and in the contemporary world.

REL 102. WORLD RELIGIONS **4 sh**

The origin, historical development and beliefs of selected religious traditions are the focus of this course.

REL 111. THE OLD TESTAMENT STORY **4 sh**

This course introduces students to the Hebrew Scriptures so that they may understand the beliefs expressed in it, evaluate its relevance to their lives today and be able to recognize its impact on our literature, language, music, art and sculpture, both past and present.

REL 112. INTRODUCTION TO THE NEW TESTAMENT **4 sh**

This course studies the rise and development of Christianity and its literature.

REL 181. INTERNSHIP IN RELIGIOUS STUDIES **1 sh**

An optional internship may occasionally be offered in conjunction with REL 134 Introduction to Religious Studies.

230 REL 251. RELIGIOUS STUDIES ABROAD **4 sh**

Religious Studies experiences are offered in England, India and/or the Middle East (Israel, Egypt and Jordan). Winter Term only.

REL 292. APPROACHES TO THE STUDY OF RELIGION **4 sh**

This course is to orient students interested in religious studies to the broader landscape of the field. In the process, students will be challenged to examine and compare a variety of methodological approaches to the study of religion. This course will also train students in advanced research and writing in the field. Prerequisite: REL 101 or 102 and REL 111 or 112. Offered spring.

REL 321. UNEARTHING THE BIBLE **4 sh**

This study surveys major archaeological research as it relates to our understanding of the Bible and its setting.

REL 322. OLD TESTAMENT PROPHETS **4 sh**

The background, personal characteristics, function, message and present significance of the Hebrew prophets is the focus of this course.

REL 324. WHEN BAD THINGS HAPPEN TO GOOD PEOPLE **4 sh**

Study of the Old Testament Book of Job includes its contents, literary structure, impact on modern literature and drama, and its message about senseless tragedy for today's world.

REL 325. REVELATION AND OTHER APOCALYPTIC LITERATURE **4 sh**

The course examines the origins of apocalyptic thought in early Jewish and Christian history. While half of the course is a very close and detailed reading of Revelation, some Old Testament and intertestamental apocalyptic literature is also read.

REL 326. LIFE AND THOUGHT OF PAUL**4 sh**

This study analyzes major motifs of Paul's theology by interpreting his New Testament writings.

REL 327. LOST BOOKS OF THE BIBLE**4 sh**

This course examines early Jewish and early Christian writings that were at some point considered scripture by various Jewish and Christian groups, but were not included when the Bible was finally put together. Many of these writings were lost for centuries and only rediscovered in the 19th and 20th centuries.

REL 329. JESUS AND THE GOSPELS**4 sh**

The course is a close reading and comparison of Matthew, Mark and Luke in parallel columns, along with the noncanonical Gospel of Thomas. John will be read separately toward the end of the course.

REL 335. CHRISTIANITY: ANCIENT AND MEDIEVAL**4 sh**

This course examines the history and thought of the various forms of Christianity from the apostolic age (late first century) to the eve of the Protestant Reformation (early sixteenth century). Offered fall.

REL 336. CHRISTIANITY: REFORMATION TO THE PRESENT**4 sh**

This course will cover extensively the Reformation period, Enlightenment and the context of Christianity from 1500 to the present. Attention will be given to theologians, ideas and theologies, global contexts and the impact of Christianity on global history.

REL 337. THEOLOGICAL EXPLORATIONS: GOD AND THE SEARCH FOR MEANING**4 sh**

This course is designed to expose students to extensive discussions that are taking place in the global community concerning humankind's relationship to the sacred. From the rise of religious violence to fundamentalism and issues such as language, theodicy post-modernity and the social construction of religion, students will explore the field of theology and the human search for meaning.

REL 338. SEARCHING FOR THE SACRED: CONTEMPORARY THEOLOGIANS**4 sh****231**

This course will focus upon persons who have influenced the course of theology in the past half century, ranging from Dietrich Bonhoeffer and Karl Barth to Dorothe Sollee. The theologians' lives will be studied as pilgrimages in order to help students better understand the ways in which life's journeys are expressed in our thinking.

REL 339. GOD AND POLITICS**4 sh**

This class is designed to explore the connection between political and religious communities. Some of the topics covered are the role of fundamentalism and its contemporary impact, the nature of historical consciousness and the mythic narratives it creates, and the separation of church and state. While rooted in American culture, this class will take a global perspective in order to understand such things as religious violence and the absolutist claims of some religious communities. Prerequisites: None. Offered fall.

REL 342. SEXUALITY AND THE SOCIAL ORDER**4 sh**

This course examines a variety of ethical arguments and debates regarding sexual behavior and expression. Attention will be paid to the ways in which sexuality is socially constructed. Emphasis is placed on learning how to critically analyze and evaluate Christian ethical argumentation. Prerequisites: None. Offered spring.

REL 343. WOMEN, VIOLENCE AND RESISTANCE**4 sh**

This course takes a serious look at a wide variety of forms of violence against women. Topics include domestic violence, prostitution, gang rape, economic violence, military violence, cultural violence, and incest. Particular attention will be paid to religious justifications for violence against women; and the role that faith communities have played in both condoning and resisting violence. Prerequisites: None. Offered spring.

REL 344. CHRISTIANITY AND SOCIAL JUSTICE**4 sh**

This course will focus on the religious foundations for social justice within the Christian tradition. Emphasis will be placed on employing a structural analysis of social problems that includes the role of religion and religious communities in both perpetrating and healing social injustice. Prerequisites: None. Offered fall.

REL 348. ENVIRONMENTAL ETHICS**4 sh**

In an exploration of the moral dimensions of the environmental crisis, students examine the roles which religious and philosophical ethics play in providing frameworks for understanding environmental issues and developing guidelines for addressing specific contemporary problems. (Cross-listed with PHL 348.)

REL 353. BUDDHISM**4 sh**

This course gives students a critical understanding of basic concepts and doctrines of Buddhism, considering the similarities and contrasts between the different major schools of Buddhism as well as Buddhism's relationship to Taoism and Confucianism.

REL 352. HINDUISM**4 sh**

This study of the history, scripture and beliefs of this major religion of India includes topics such as the doctrine of creation, karma, reincarnation and the problem of evil.

REL 354. LIFE BEYOND DEATH**4 sh**

This course explores the various meanings of death and the afterlife found in selected religious traditions of the world. It will review perspectives on death from theologians and philosophers and examine popular metaphors for death as well as analyze the roles that the fear of death plays in the world's religions. Prerequisites: None. Offered fall.

REL 355. PHILOSOPHY OF RELIGION**4 sh**

This course is cross-listed with PHL 355.

REL 358. YOGA: THE PRACTICE OF SPIRITUAL TRAINING**4 sh**

This course will address and analyze the history and practice of spiritual training and self-cultivation developed in India. The course will help students understand different yogic paths and the practice of a variety of ascetic and meditative techniques as they have developed in Hinduism, Buddhism and Taoism. Offered spring.

REL 361. ISLAM**4 sh**

Study of the history, scripture and beliefs of Islam gives attention to Islam as an influential force in the contemporary world.

REL 362. ISLAM IN AMERICA**4 sh**

This course traces the history of the American Muslim communities, the differences between the experiences of African-American Muslims and immigrant Muslims, and the implications of their presence in the United States. Particular attention will be paid to various aspects of Muslim life in America, such as Muslim organizations, generational differences, gender and legal issues, conversion and everyday lifestyles. Offered fall.

REL 363. MUSLIMS IN THE MODERN WORLD**4 sh**

This course presents Muslims as a religious, cultural, and political force from late modernity to the present. Students will study Islamic modernism and reform, the rise of political Islam, the interaction between Muslims and the West and the growing Muslim presence in the West. Attention will be given to the status of women in Muslim societies, Islamic law in modern nation-states, and the effects of September 11, 2001. Offered spring.

REL 364. APPROACHING THE QUR'AN**4 sh**

This course introduces students to the sacred scripture of the Islamic faith, the Qur'an. It presents the history of Qur'anic revelation; language, structure and translations of the Qur'an; and interpretation and application of the scripture in the lives of Muslims. Special attention is given to Qur'anic verses on prophets, eschatology, creation, Jihad,

women, and Jews and Christians, in comparison to the Old and New Testament where possible. Offered fall.

REL 380. RELIGION IN CONTEMPORARY BRITAIN 4 sh

The focus of this travel course centers on a study of the beliefs and practices of various faith communities in a multicultural and plural society, specifically modern-day Britain.

REL 381. JUDAISM 4 sh

This course introduces students to the history, texts, beliefs and practices of Judaism.

REL 460-469. SPECIAL TOPICS 4 sh

These courses allow individual faculty members to teach courses on timely topics that are of special interest to students or on topics that are related to faculty research projects that may be of interest to students. Prerequisites: As appropriate for each course. Offered fall and spring.

REL 471. SEMINAR: SPECIAL TOPICS 1-4 sh

REL 481. INTERNSHIP IN RELIGIOUS STUDIES 1-4 sh

This course provides opportunities for upper-level students to apply concepts and information gained in the religious studies classroom to actual experiences in local community and church agencies or as teaching assistants in freshman-level classes. Maximum four semester hours toward major. Prerequisites: junior/senior majors only, faculty approval.

REL 491. INDEPENDENT STUDY 1-4 sh

Upper-class majors (or others by instructor consent) may complete individual study in an area of special interest with the guidance of a member of the department. Maximum six semester hours credit.

REL 492. SENIOR SEMINAR 4 sh

In this capstone course, the student and the department evaluate performance over the student's past years of study. Prerequisite: REL 292. Required of all majors during senior year.

REL 499. RESEARCH 1-4 sh

This course offers the individual student an opportunity to pursue a research project with a selected faculty mentor. Prerequisite: permission of instructor.

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Science

Associate Professors: Agnew, Carloye, N. Harris, Seidel, Wright

Assistant Professor: Lee

Science courses integrate the natural sciences, providing the opportunity to see the interrelatedness of the different science disciplines. Students experience the processes of science and relate the natural sciences to areas outside the classroom and laboratory.

SCI 121. SCIENCE WITHOUT BORDERS 4 sh

Investigate the major ideas in the natural sciences and their commonalities in this non-traditional science course emphasizing the processes of science through hands-on, minds-on activities. Intended for nonscience majors, Science Without Borders is a natural science course and students are responsible for understanding science content and processes. Students collaborate to prepare projects relating the natural sciences to a complex "real-world" problem and bring in other disciplines in a benefits/risks analysis. This course does not carry lab credit, but does count toward the non-laboratory science General Studies requirement.

Science Education

Coordinator: Associate Professor Agnew

The Departments of Biology, Chemistry and Physics in cooperation with the Department of Education offer programs leading to the Bachelor of Arts in Science Education with Secondary Science Comprehensive Licensure and with Secondary Science Licensure in the areas of biology, chemistry and physics.

The Bachelor of Arts degree with Secondary Science Comprehensive Licensure requires the following courses:

Professional Studies courses in Education, Psychology and Information Systems	35 sh
PHY 102 Astronomy	4 sh
PHY 103 Geology	4 sh
All courses in one of the concentrations listed below	40 sh
Eight semester hours in science courses from each of the other two listed areas	4-16 sh
TOTAL	87-99 sh

Concentrations

Biology concentration:

BIO 111	Introductory Cell Biology	3 sh
BIO 112	Introductory Population Biology	3 sh
BIO 113	Cell Biology Lab	1 sh
BIO 114	Population Biology Lab	1 sh
BIO 221	Zoology	4 sh
BIO 222	Botany	4 sh
BIO 322	Molecular/Cellular Biology	4 sh
CHM 111	General Chemistry I	3 sh
CHM 112	General Chemistry II	3 sh
CHM 113	General Chemistry I Lab	1 sh
CHM 114	General Chemistry II Lab	1 sh
CHM 211	Organic Chemistry I	3 sh
CHM 213	Organic Chemistry I Lab	1 sh
Select one course from:		4 sh
BIO 312	Comparative Vertebrate Anatomy	
BIO 321	Microbiology	
BIO 325	Human Histology	
BIO 335	Field Biology	
BIO 342	Plant Physiology	
BIO 452	General Ecology	
Select one course from:		4 sh
CHM 212/214	Organic Chemistry II & Lab	
CHM 205	Inorganic Chemistry	
CHM 332	Physical Chemistry I	

TOTAL	40 sh
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Chemistry concentration:

CHM 111	General Chemistry I	3 sh
CHM 112	General Chemistry II	3 sh
CHM 113	General Chemistry I Lab	1 sh
CHM 114	General Chemistry II Lab	1 sh
CHM 211	Organic Chemistry I	3 sh
CHM 212	Organic Chemistry II	3 sh
CHM 213	Organic Chemistry I Lab	1 sh
CHM 214	Organic Chemistry II Lab	1 sh
CHM 205	Inorganic Chemistry	4 sh or
CHM 311	Quantitative Analysis	
CHM 332	Physical Chemistry I	4 sh
BIO 111	Introductory Cell Biology	3 sh
BIO 113	Introductory Cell Biology Lab	1 sh
PHY 113	General Physics with Calculus I	4 sh
PHY 114	General Physics with Calculus II (Physics 111 and 112 may be substituted for Physics 113 and 114)	4 sh
MTH 121	Calculus and Analytic Geometry I	4 sh

TOTAL		40 sh
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Physics concentration:

PHY 113	General Physics with Calculus I	4 sh
PHY 114	General Physics with Calculus II	4 sh

(Physics 111 and 112 may be selected to satisfy eight semester hours in Physics for Biology or Chemistry concentration.)

PHY 213	Modern Physics	4 sh
PHY 301	Classical Mechanics and Dynamical Systems	4 sh
PHY 311	Classical Electrodynamics	4 sh
PHY 312	Electricity, Magnetism and Field Theory	4 sh
PHY 411	Quantum Mechanics	4 sh
MTH 121	Calculus and Analytic Geometry I	4 sh
MTH 221	Calculus and Analytic Geometry II	4 sh
MTH 321	Calculus and Analytic Geometry III	4 sh

TOTAL		40 sh
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Secondary Science Licensure

The Bachelor of Arts degree with Secondary Science Licensure requires the following courses:

Professional Studies Courses in Education and Psychology	35 sh
PHY 102 Astronomy	4 sh
PHY 103 Geology	4 sh
All courses in one of the concentrations listed below	40 sh

Twelve semester hours in science courses from one
of the other two listed areas

0-12 sh

TOTAL

83-95 sh

Concentrations

Biology concentration:

BIO 111	Introductory Cell Biology	3 sh
BIO 112	Introductory Population Biology	3 sh
BIO 113	Cell Biology Lab	1 sh
BIO 114	Population Biology Lab	1 sh
BIO 221	Zoology	4 sh
BIO 222	Botany	4 sh
BIO 322	Molecular/Cellular Biology	4 sh
Select one course from:		4 sh

BIO 312	Comparative Vertebrate Anatomy
BIO 321	Microbiology
BIO 325	Human Histology
BIO 335	Field Biology
BIO 342	Plant Physiology
BIO 452	General Ecology

CHM 111	General Chemistry I	3 sh
CHM 112	General Chemistry II	3 sh
CHM 113	General Chemistry I Lab	1 sh
CHM 114	General Chemistry II Lab	1 sh
CHM 211	Organic Chemistry I	3 sh
CHM 213	Organic Chemistry I Lab	1 sh
Select one course from:		4 sh

CHM 212/214	Organic Chemistry II & Lab
CHM 205	Inorganic Chemistry
CHM 332	Physical Chemistry I

TOTAL

40 sh

Chemistry concentration:

CHM 111	General Chemistry I	3 sh
CHM 112	General Chemistry II	3 sh
CHM 113	General Chemistry I Lab	1 sh
CHM 114	General Chemistry II Lab	1 sh
CHM 211	Organic Chemistry I	3 sh
CHM 212	Organic Chemistry II	3 sh
CHM 213	Organic Chemistry I Lab	1 sh
CHM 214	Organic Chemistry II Lab	1 sh
CHM 205	Inorganic Chemistry	4 sh or
CHM 311	Quantitative Analysis	
CHM 332	Physical Chemistry I	4 sh

BIO 111	Introductory Cell Biology	3 sh
BIO 113	Introductory Cell Biology Lab	1 sh
PHY 113	General Physics with Calculus I	4 sh
PHY 114	General Physics with Calculus II	4 sh
(Physics 111 & 112 may be substituted for Physics 113 and 114)		
MTH 121	Calculus and Analytic Geometry I	4 sh

TOTAL		40 sh
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Physics Concentration:

PHY 113	General Physics with Calculus I	4 sh
PHY 114	General Physics with Calculus II	4 sh
PHY 213	Modern Physics	4 sh
PHY 301	Classical Mechanics and Dynamical Systems	4 sh
PHY 311	Classical Electrodynamics	4 sh
PHY 312	Electricity, Magnetism and Field Theory	4 sh
PHY 411	Quantum Mechanics	4 sh
MTH 121	Calculus and Analytic Geometry I	4 sh
MTH 221	Calculus and Analytic Geometry II	4 sh
MTH 321	Calculus and Analytic Geometry III	4 sh

TOTAL		40 sh
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Social Science

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The disciplines of the social sciences offer several interdisciplinary courses that study the methods and approaches used in the social science fields. In addition, the social sciences host two special programs: The Social Science Fellows program and a major in Social Science Education.

SSC 350. SCHOLARSHIP AT WORK: RESEARCH IN THE SOCIAL SCIENCES **2 sh**

This course offers an interdisciplinary seminar exploring how scholars in the social sciences ask questions, explore topics and apply their research. Students must concurrently register for a research course (two semester hours) to work with a faculty mentor from the social science division to prepare a research proposal for a Fellows Project.

Prerequisites: acceptance as a Social Science Fellow and junior standing.

SSC 351. SCHOLARSHIP AT WORK: RESEARCH IN THE SOCIAL SCIENCES **2 sh**

This course offers an interdisciplinary seminar exploring how scholars in the social sciences ask questions, explore topics and apply their research. Students must concurrently register for a research course (two semester hours) to work with a faculty mentor from the social science division to begin work on their Fellows Project. Prerequisites: acceptance as a Social Science Fellow and junior standing.

Social Science Education

Chair, Department of Sociology: Professor Basirico
Coordinator: Assistant Professor Curry

Social Science Education, designed for prospective secondary school social studies teachers, is an integrated, multidisciplinary study of interactions among people in diverse cultural and geographical environments. It examines political institutions, economic processes, historical events and social forces which influence human behavior and produce continually changing relationships and ideas.

The Social Science Education program helps students understand major social, economic, political and environmental issues in both historical and contemporary settings. The program also focuses on the relationship between the person and the larger society. In that context, students are encouraged to reflect upon their own values and behavior. Part of this process emphasizes the development of analytical and communication skills which help people solve problems and make decisions rationally.

Elon's Social Science Education program provides students with an opportunity to master the competencies required by the North Carolina State Department of Public Instruction, including the ability to (1) formulate objectives; (2) identify and use available resources; (3) read and interpret data; (4) select and create teaching strategies; (5) use facts, develop concepts and formulate generalizations; (6) design and use assessment and evaluation techniques; (7) use democratic classroom methods; (8) recognize and deal with sensitive and controversial issues; and (9) learn computer technology relevant to the social sciences.

A major in Social Science Education requires the following courses:

ECO 201	Principles of Economics	4 sh
GEO 131	The World's Regions	4 sh
SOC 111	Introductory Sociology	4 sh
POL 111	American Government	4 sh
SOC 112	Introduction to Cultural Anthropology	4 sh
POL 261	Comparative Politics	4 sh
HST 112	Europe and the Mediterranean World since 1660	4 sh
HST 121	United States History through 1865	4 sh
HST 122	United States History since 1865	4 sh
HST 361	North Carolina in the Nation	4 sh
A 300-400 level Geography		4 sh
A 300-400 level non-U.S. History		4 sh
A 300-400 level History		4 sh
HST 301	Research Methods	4 sh
History Seminar		4 sh
Thirty-five semester hours professional education and psychology courses		35 sh
TOTAL		95 sh

Sociology and Anthropology

Chair, Department of Sociology: Professor Basirico
 Coordinator, Anthropology Minor: Professor Bolin
 Professors: Arcaro, T. Henricks
 Assistant Professors: Curry, Jones, Mould, Smith-Nonini

Sociology and anthropology provide the student with an exceptional understanding of the world by developing an awareness of how society and culture shape our lives and perspectives. Studying sociology and anthropology is more like a journey in which we learn to stand outside ourselves to see our world with new eyes.

Sociologists and anthropologists study all forms and dimensions of human social and cultural behavior from the institutional to the interpersonal e.g., "How do people select a mate? How are people organized into groups such as sororities, fraternities and sports teams? How do institutions such as the family, economy, government, religion and health-care develop and affect our lives?"

With their wide scope, sociology and anthropology are linked to all the disciplines and are complementary to any major found at Elon. The U.S. is a culturally diverse society and solutions to our interpersonal, community, national and international problems demand an understanding of society and culture.

The sociocultural perspective students develop through sociology and anthropology is an asset not only in their personal lives, but also in business, politics, economics, healthcare, education, health and fitness, social services, the mental health field, urban planning, family planning and many other professions.

A major in Sociology requires the following courses:

SOC 111	Introductory Sociology	4 sh
SOC 112	Introduction to Cultural Anthropology	4 sh
SOC 215	Sociocultural Inquiry	4 sh
SOC 216	Research Methods in Sociology	4 sh
SOC 261	Sociological Theory	4 sh
SOC 451	Comprehensive Review in Sociology	2 sh
SOC 461	Senior Seminar in Sociology	4 sh
Sixteen semester hours of electives in Sociology courses		16 sh
TOTAL		42 sh

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A minor in Sociology requires the following courses:

SOC 111	Introductory Sociology	4 sh
SOC 215	Sociocultural Inquiry	4 sh or
SOC 216	Research Methods in Sociology	4 sh
Twelve semester hours selected from Sociology courses		12 sh
TOTAL		20 sh

A minor in Anthropology requires the following courses:

SOC 112	Introduction to Cultural Anthropology	4 sh
SOC 215	Sociocultural Inquiry	4 sh
Twelve semester hours selected from:		12 sh

SOC 113	Human Evolution and Adaptation
SOC 121	Cross-Cultural Encounters (two semester hours)
SOC 227	From the Ground Down
SOC 253	Studies Abroad in Australia
SOC 322	Ethnography
SOC 324	Culture and Sex
SOC 325	Culture and Health
SOC 326	Anthropology of the Corporation
SOC 327	Encountering the Sacred
SOC 328	Culture and the Modern World
SOC 345	Sociocultural Perspectives on Gender
SOC 362	Readings in Anthropology
SOC 363	Latin American Social Movements
SOC 364	Inequality and Development in Latin America
SOC 380-389	Special Topics in Anthropology
SOC 482	Internship in Anthropology (1-4 semester hours)
ENG 303	Linguistics

TOTAL**20 sh****SOC 111. INTRODUCTORY SOCIOLOGY****4 sh**

This course provides an introduction to basic theoretical principles and research methods of modern sociology, including such issues as the relationship between culture, personality and society; the fundamental forms of social structure; social institutions such as religion and the family; and social processes such as deviance and social change. Offered fall and spring.

SOC 112. INTRODUCTION TO CULTURAL ANTHROPOLOGY**4 sh**

This introduction to the study of human cultures focuses on the diversity of human cultures around the globe. It presents basic concepts, theories and methods used by anthropologists studying people and culture. Topics span human cultural evolution, social organization, marriage and family, making a living, economics, politics, religion, human problems related to issues of globalization among others. Offered fall and spring. Required course for the Sociology major and the Anthropology minor.

SOC 113. HUMAN EVOLUTION AND ADAPTATION**4 sh**

This course provides a basic introduction to neo-Darwinian theory and natural selection, Mendelian and population genetics, mechanisms of human biological and cultural adaptation and interpretation of the primate and hominid fossil record (drawing on both paleontology and molecular genetics). Special attention is paid to the interaction of social mechanisms with biological and environmental influences in human evolution. Readings include an introduction to medical biotechnology and the Human Genome Diversity Project.

SOC 121. CROSS-CULTURAL ENCOUNTERS**2 sh**

This course is an introduction to the subject of culture and to living in a multicultural world. The central theme of the course is appreciating as well as understanding cultural diversity. Students will develop and expand their cultural sensitivity through a variety of experiential activities focused on becoming more aware of the role of culture as central in defining who we are as individuals. Exposure to the unique approaches of anthropologists in encountering and communicating with peoples of different cultures and backgrounds will be emphasized. This course will serve as an excellent foundation for a variety of majors in communications, the humanities, the social sciences, business, education and for those with a geographic focus such as Asia, Africa, Russia, etc. It will also serve as preparation for the Studies Abroad experience.

SOC 131. SOCIOLOGY THROUGH FILM**4 sh**

This course explores sociological principles, concepts, theories, ideas, themes and issues as they may be illustrated in cinema, television and commercials. Relevant sociological readings are assigned to accompany the specific sociological content being illustrated in each session.

SOC 215. SOCIOCULTURAL INQUIRY**4 sh**

Students develop an understanding of the ways sociologists and anthropologists inquire about society, use sociocultural perspectives and theories to frame researchable questions and discuss ways of collecting and analyzing information. Special emphasis is given to library and other informational technology and to qualitative methodology, including content analysis and field research. Prerequisite: SOC 111 or 112.

SOC 216. RESEARCH METHODS IN SOCIOLOGY**4 sh**

Students examine basic sociological research methods, with an emphasis on quantitative methodology. Topics to be covered include the philosophy of science, concept and theory formation, problem identification and definition, literature review, theoretical relevance of the investigation, selecting indicators of social phenomenon, hypothesis testing, sampling procedures, scale and index construction, survey creation and analysis, analysis of aggregate data and the collection and analysis of quantitative data. SPSS as an analytical tool will be emphasized. Students are also introduced to qualitative methodology.

SOC 227. FROM THE GROUND DOWN**4 sh**

Students explore the adventure and science of archaeology from the perspective of an anthropologist. This course highlights great discoveries in archaeology with a look at famous sites worldwide. An overview of the development of archaeology from treasure hunting to a high-tech science are presented. Additional topics include fieldwork techniques, artifact analysis, interpretation, forensic analysis and cultural resource preservation. The course includes visits to archaeological sites in the area.

SOC 241. SOCIAL ISSUES AND PROBLEMS**4 sh**

Students investigate social issues pertaining to institutions and use a sociological framework to discover the interconnections between national and global problems. Study focuses on causes, consequences and policies concerning such problems as racism, sexism, poverty, war, overpopulation and issues pertaining to institutions of the family, economy, government, medicine, religion and others.

241**SOC 245. NONVIOLENCE OF THE BRAVE: FROM GANDHI TO KING****4 sh**

Students are exposed to the ideas and personalities of political philosophers and leaders who have influenced major nonviolent social and political movements in the 20th century. Common themes appearing in the philosophies and action plans of Thoreau, Gandhi, King and others are explored and compared to the philosophies and action plans of leaders such as Mao Tse-tung, Malcolm X and others. The course includes readings, feature films and documentaries.

SOC 253. STUDIES ABROAD IN AUSTRALIA**4 sh**

Students experience western Australia through anthropological and sociological perspectives. The influence of Aboriginal, European and Pacific migrants on Australian culture is examined. A predominant focus of the course is an exploration of Aboriginal peoples in relation to Euro-Australian interests. Students are exposed to a rich cultural milieu through orientation prior to departure, participant-observation, focused observations, field trips, lectures and directed self learning. Offered winter.

SOC 261. SOCIOLOGICAL THEORY**4 sh**

In sociological theory, students explore conceptualization and model-building in modern sociology and consider the emergence of sociological traditions or perspectives. Topics include underlying assumptions, historical and intellectual background and the logical consequences of these positions. This course is a writing intensive course, mean-

ing at least 70 percent of the grade comes from writing assignments during the course. Prerequisite: SOC 111. Offered spring.

SOC 311. THE FAMILY

4 sh

This course provides an investigation of the family as an institution in societies, focusing on the development and current patterns of the American family. Specific topics include social class differences, racial and ethnic variations, premarital patterns, marital interaction, family problems and the future prospects for the family. Prerequisite: SOC 111.

SOC 314. SOCIOLOGY OF SPORT

4 sh

This course focuses on sport as a major social institution in American society. Topics include the social organization of sport, the relationship of sport to other aspects of American life such as politics and education, the experiences of African-Americans, women and youth in sport, and the effects of sport on culture, personality and society.

SOC 322. ETHNOGRAPHY

4 sh

This course teaches the methods anthropologists use to gain access, develop rapport, collect and analyze data and interpret findings when studying human cultures. Students also read selected ethnographies (first-hand accounts by anthropologists who have lived among peoples of various cultures, including ourselves, throughout the globe). Prerequisite: SOC 111 or 112.

SOC 324. CULTURE AND SEX

4 sh

This course examines human sexuality from a biocultural perspective, exploring the physiology of human sexuality and the cross-cultural context of sexual expression. Themes include alternative sexual lifestyles, sexual dysfunction, the symbolic dimensions of sexuality and AIDS. Prerequisite: SOC 111 or 112.

SOC 325. CULTURE AND HEALTH

4 sh

This study of the biocultural basis of health and disease over time and across cultures examines the importance of culture in the experience of illness, diagnosis and treatments. Topics include the cultural implications of food and food habits, health care practices, the relationship of healers and patients, alternative health care practices and the relationship of mind and body in illness and recovery. Prerequisite: SOC 111 or 112.

SOC 326. ANTHROPOLOGY OF THE CORPORATION

4 sh

This course examines the worlds of corporate business, work and the international economy, using ethnographic and sociological case studies as well as political economy analysis. Students explore the cultural meaning of social class and compare the organization and experience of modern workplaces and markets cross-culturally. Topics include the history of capitalist expansion, relations between transnational corporations and governments, organized labor, advertising, the neoliberal movement, globalization and public debates over "free trade" and corporate governance. Prerequisite: SOC 111 or 112.

SOC 327. ENCOUNTERING THE SACRED

4 sh

Students develop an understanding of non-Western views of the world through intellectual and experiential study of Native American perspectives. Anthropological concepts are used in conjunction with non-Western methods of understanding. The course emphasizes the power of the oral tradition as a learning tool and explores the continuities and diversities of the Native American belief systems. Experiential activities include conversations with Native American healers and leaders, participation in pow wows and a variety of outdoor activities designed to help the students develop an animistic perspective. Prerequisite: SOC 111 or 112.

SOC 328. CULTURE AND THE MODERN WORLD**4 sh**

This course examines the changes that have created the "modern" world. The course initially considers social and cultural changes in Europe and America during the 19th and 20th centuries, including changes in public ideas and values, economics, politics, religion, family life, community, education and public ceremony. A key theme will be the impact on self experience. The second part of the course focuses on these issues as they are occurring presently within the developing countries. The nature and influence of an emerging global community will be examined. Prerequisite: SOC 111 or 112.

SOC 331. THE SELF AND SOCIETY**4 sh**

Self and society involves the ways individuals are influenced by social interaction with others, with attention to the interaction processes of socialization, developing an identity and individual identities affecting interactions. Other topics include the impact of social change, increased technological developments in everyday life and postmodernism on the self, and the sociological perspectives of symbolic interactionism and dramaturgy. Prerequisite: SOC 111.

SOC 333. SOCIAL STRATIFICATION**4 sh**

This study of societal patterns of inequality includes consideration of differences in wealth, power, prestige and knowledge. Students examine the access levels groups have to these resources and the subsequent effects of their access level on educational opportunity, housing, health care, justice before the law, self esteem and life satisfaction. The stratification systems of the different societies are studied, but the primary focus is on institutionalized inequality in the U.S. Prerequisite: SOC 111.

SOC 341. ETHNIC AND RACE RELATIONS**4 sh**

Students examine the meaning of minority group status in terms of the general patterns and problems confronting all minorities as well as the specific issues facing individual minority groups such as African-Americans, Jews, European-Americans and Asian-Americans. Discussion emphasizes the nature of prejudice and discrimination, the structure of minority-majority relations and strategies toward social equality. Prerequisite: SOC 111.

SOC 342. SOCIAL DEVIANCE**4 sh**

This course considers deviance and social control in societal context. Emphasis is placed on the ways in which deviance is defined cross-culturally and on the different ways in which deviants are labeled and treated. The course focuses on sociocultural explanations of deviance within such areas as mental and physical health, drug use, sexual expression, aggression and personal identity. The relationship between deviance and social stratification is examined. Prerequisite: SOC 111.

SOC 343. SOCIAL AND CULTURAL CHANGE**4 sh**

Concern for the nature and direction of modernization provides a foundation in this course as students analyze patterns of social and cultural change (especially in technologically advanced societies such as the U.S.). Topics include innovation, diffusion, evolution, revolution, collective behavior and social movements with emphasis on the causes of patterns and their effects on individual and public life. Prerequisite: SOC 111.

SOC 345. SOCIOCULTURAL PERSPECTIVES ON GENDER**4 sh**

Students use sociological and anthropological perspectives, theories and concepts to analyze the meaning of being female and male in American society. Discussion emphasizes the inequities based upon gender, particularly the problems faced by women. Prerequisite: SOC 111 or 112.

SOC 351. SOCIOLOGY OF POPULAR CULTURE**4 sh**

This course studies the nature and significance of culture as this is presented to the public through movies, magazines, newspapers, television, music, radio, popular fiction, spectator events and mass-produced consumer goods. The course will focus on patterns

of production, distribution and consumption of popular culture, thematic issues and effects on behavior. A special concern will be the relationship of popular culture images to “visions of the good life” in the modern U.S. Prerequisite: SOC 111.

SOC 355. SOCIOLOGY OF CRIME

4 sh

This course provides a sociological explanation of crime with a focus on the relationship between social structure and criminal behavior. Included in this approach are studies of individual criminal behavior. Both classic and contemporary theories of crime are explored; emphasis is placed upon the American context.

SOC 361. READINGS IN SOCIOLOGY

4 sh

In this colloquium of significant readings in sociology, students explore specific substantive topics, key theoretical issues and new developments in the discipline. Prerequisites: junior or senior standing, SOC 111 or 112. Offered fall.

SOC 362. READINGS IN ANTHROPOLOGY

4 sh

In this colloquium of significant readings in anthropology, students explore specific substantive topics, key theoretical issues and new developments in the discipline. Prerequisites: junior or senior standing, SOC 111 or 112. Offered fall.

SOC 363. LATIN AMERICAN SOCIAL MOVEMENTS

4 sh

This course uses anthropological and sociological case studies of Latin American and Latino social movements to examine the causes, processes and consequences of contemporary struggles for social change. We focus primarily on movements during the 1980s and 1990s. Special attention is paid to the roles played by military repression, the Catholic Church, paramilitary groups and non-governmental organizations (NGOs). We look at how workers, women and indigenous peoples are shaping popular movements, as well as their reception by national and transnational elites, including the U.S. government.

SOC 364. INEQUALITY AND DEVELOPMENT IN LATIN AMERICA

4 sh

This course examines the persisting extreme disparity between rich and poor in Latin America with special attention to the promise and problems of post-World War II development. We draw on historical material and case studies to examine the roles of modernization and dependency theories; the World Bank and IMF; the women's movement; grassroots struggles; non-governmental organizations (NGOs); and neoliberal policies in shaping and reshaping development. The current push for “free trade” policies is evaluated in light of criteria from emerging models for more sustainable, participatory development.

SOC 370-379. SPECIAL TOPICS IN SOCIOLOGY

2-4 sh

This series of courses reflecting new contributions in sociology or sociological issues. Prerequisite: to be determined by instructor.

SOC 380-389. SPECIAL TOPICS IN ANTHROPOLOGY

2-4 sh

This series of courses reflects new contributions in anthropology or anthropological issues. Prerequisite: to be determined by instructor.

SOC 451. COMPREHENSIVE REVIEW IN SOCIOLOGY

2 sh

Students review the major theories, principles and concepts in sociology as preparation for major evaluation. This course is intended primarily for senior sociology majors and sociology minors. Students from other areas who seek a review of the field also may take this course. Prerequisites: must be sociology major, minor or have permission of the instructor and at least junior standing. Offered spring.

SOC 461. SENIOR SEMINAR IN SOCIOLOGY

4 sh

This capstone course reviews major areas of sociology and provides further opportunity to share research on these topics. Students conduct research ranging from how sociological knowledge can be applied occupationally and politically to more basic, academic topics. Prerequisite: senior sociology major, SOC 215 and SOC 216.

SOC 471. SEMINAR: SPECIAL TOPICS 2-4 sh

SOC 481. INTERNSHIP IN SOCIOLOGY 1-4 sh

Teaching, research, service and occupational internships are offered. Limited to four semester hours credit applicable to sociology major or minor. Prerequisites: department permission and at least sophomore standing.

SOC 482. INTERNSHIP IN ANTHROPOLOGY 1-4 sh

Teaching, research, service and occupational internships are offered. Limited to four semester hours credit applicable to sociology major or minor, or anthropology minor. Prerequisites: department permission and at least sophomore standing.

SOC 491. INDEPENDENT STUDY 1-4 sh

SOC 499. INDEPENDENT RESEARCH IN SOCIOLOGY AND ANTHROPOLOGY 1-8 sh

The student develops an individual project of original research under the guidance of a professor within the department. Prerequisites: at least sophomore standing; sociology major or minor, or anthropology minor; satisfactory completion of SOC 215 or SOC 216; and permission of the sponsoring professor. Students are also required to complete the department's Independent Research form, a process that includes a description of the proposed research and a student-professor plan for completing the course.

Sports Medicine

See Athletic Training Major or Exercise/Sport Science Major.

Theatre Arts

Chair, Department of Performing Arts: Associate Professor McNeela

Associate Professors: Becherer, K. Lee, Rubeck

Assistant Professors: Gang, Ma, Sabo, Smith, Webb

Adjuncts: Flannery, Hiller, Hyers, Johnson, Szabo

The study of Theatre Arts can be a vital part of a liberal arts education. Creativity, teamwork, problem-solving, communication skills and critical thinking are all enhanced by this study, regardless of the student's eventual career goals.

The Department of Performing Arts offers a Bachelor of Fine Arts (BFA) degree in Theatre Arts with an acting emphasis, a Bachelor of Arts (A.B.) degree in Theatrical Design and Production and a Bachelor of Arts (A.B.) degree in Theatre Studies. A minor is also available. The BFA degree in acting is intended for the student who wishes to pursue a professional career in theatre. Students who complete this degree may also pursue further graduate training. The A.B. degree in Theatrical Design and Production is intended for the student who wishes to pursue a career in professional Theatrical Production or Design. Students who complete this degree may also pursue further graduate training. The A.B. in Theatre Studies is a liberal arts degree from which students may pursue various career options, including possible graduate study.

Please note that an audition is required for entry to the BFA Acting program, and an interview/portfolio showing is required for entry to the A.B. Theatrical Design and Production program. The A.B. in Theatre Studies is open-enrollment – no interview or audition is required.

The course of study within all three degrees emphasizes a thorough grounding in fundamental areas of the theatre (acting, design and production, and theatre history and literature.) The BFA degree in Acting then explores script analysis, directing and intense training in acting. The A.B. degree in Theatrical Design and Production explores script analysis, directing and a full range of courses in design and production. The A.B. degree in Theatre Studies is completed with a series of electives selected by the student, reflecting their primary interests in the art form. To provide practical application of coursework, students are expected to participate actively in department productions. For those interested in a career in theatre, regular opportunities exist for contact with the professional world through master classes, guest artists and participation in regional and national conferences, conventions, auditions and competitions.

The minor in Theatre Arts is designed for the general theatre enthusiast. Students complete a study of the base-level skills in performance, production and theory, followed by advanced study in a selected area. The purpose of this study is to create more informed audience members and avocational participants.

A major in Theatre Arts (BFA degree, acting emphasis) requires the following courses:

THE 120	Acting I	4 sh
THE 210	Technical Production in Theatre	4 sh
THE 220	Acting II	4 sh
THE 221	Acting III	4 sh
THE 222	Fundamentals of Make-up Design and Application	2 sh
THE 225	Vocal Production I	1 sh
THE 226	Vocal Production II	1 sh
THE 230	Playscript Analysis	4 sh
THE 301	Theatre History and Literature I	4 sh
THE 302	Theatre History and Literature II	4 sh
THE 320	Acting IV – Special Topics – Repeatable	12 sh
THE 325	Vocal Production III	1 sh
THE 326	Vocal Production IV	1 sh
THE 430	Play Direction	4 sh
THE 495	Senior Seminar	4 sh
Any 300–400 level design course		4 sh
Eight semester hours of electives selected from:		8 sh
Private Voice or Studio Dance (up to four credit hours, total)		
Additional hours of THE 320		
Winterstock Theatre (up to four credit hours, total)		
Theatre, Dance or Voice Ensemble (up to four credit hours, total)		
English or Foreign Language courses with a focus on		
Dramatic Literature (up to four credit hours, total)		
TOTAL		66 sh

A major in Theatrical Design and Production (A.B. degree) requires the following courses:

THE 115	B.A. Acting I	4 sh
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THE 210	Technical Production in Theatre	+ sh
THE 230	Playscript Analysis	+ sh
THE 301	Theatre History and Literature I	+ sh
THE 302	Theatre History and Literature II	+ sh
THE 430	Play Direction	+ sh
THE 440	Special Topics: Scene Design	+ sh
THE 440	Special Topics: Lighting Design	+ sh
THE 440	Special Topics: Costume Design	+ sh
THE 495	Senior Seminar	+ sh

Eight semester hours (at least four semester hours at 300–400 level) selected from: 8 sh

Any Theatre Arts course

DAN 101 Introduction to Dance

Any course in English or Foreign Language with a focus on dramatic literature

Any Art History or Studio Art course

TOTAL 48 sh

A major in Theatre Studies (A.B. degree) requires the following courses:

THE 101	Introduction to Theatre	+ sh
THE 115	B.A. Acting I	+ sh
THE 210	Technical Production in Theatre	+ sh
THE 215	B.A. Acting II	+ sh
THE 301	Theatre History and Literature I	+ sh
THE 302	Theatre History and Literature II	+ sh
THE 495	Senior Seminar	+ sh

Any 300–400 level design course + sh

Sixteen semester hours (at least eight semester hours at 300–400 level) selected from: 16 sh

Electives in Theatre Arts courses

Any course in English

or Foreign Language with a focus on dramatic literature.

TOTAL 48 sh

A minor in Theatre Arts requires the following courses:

THE 101	Introduction to Theatre	+ sh
THE 125	Acting for Nonmajors	+ sh
THE 210	Technical Production in Theatre	+ sh
Eight hours THE electives at the 300–400 level		8 sh

TOTAL 20 sh

THE 101. INTRODUCTION TO THEATRE

4 sh

Students explore the nature of theatre, how it is created and how it functions in society. Primary study covers the diversity of the art form, basic terminology and the event/audience relationship. Performance reaction papers, creative projects and lab

hours are required. Offered fall and spring. (THE 101 is cross-listed with FNA 101.)

THE 110. THEATRE WORKSHOP

2-4 sh

Students work with a professor to earn credit for hands-on experiences in theatrical production. Maximum four semester hours credit. Offered fall, winter and spring.

THE 115. B.A. ACTING I

4 sh

This course is specifically designed to meet the needs of the A.B.Theatre Studies and Theatrical Design and Production majors. Students will explore topics related to acting and establish a foundation of acting skills through work on scenes and monologues from realistic plays. Students will also develop critical and other observational skills by writing reaction papers on plays they attend. Prerequisites: A.B.Theatre Studies or Theatrical Design and Production majors, or permission of instructor. Offered spring.

THE 120. ACTING I

4 sh

Students learn to free and expand their physical and vocal instruments, removing tension and inhibitions to become flexible, creative and expressive performers. Prerequisite: BFA Theatre Arts/Music Theatre majors or permission of instructor. Offered fall.

THE 125. ACTING FOR NONMAJORS

4 sh

This course is designed to meet the interests of the nonmajor. With this course's dual focus, students gain experience in acting and examine topics such as the art of acting, leading to a more informed audience respondent. Performance reaction papers are required. Offered fall and spring.

THE 210. TECHNICAL PRODUCTION IN THEATRE

4 sh

Students learn the basics of theatrical production in scenery and lighting, including fundamental drafting skills. An intensive hands-on lab is required. Offered fall.

THE 215. B.A. ACTING II

4 sh

This course is specifically designed to meet the needs of the A.B.Theatre Studies majors. Students will increase their skills and understanding of the work of the actor through continued work on scenes and monologues from plays with a wide variety of styles. Students will further develop their critical and observational skills by writing reactions papers on plays they attend. Prerequisites: THE 115. Offered fall.

THE 220. ACTING II

4 sh

Students prepare scenework exercises to continue developing acting skills with focus on realistic drama approached through a Stanislavski-based methodology. Performance reaction papers are required. Prerequisite: THE 120. Offered fall.

THE 221. ACTING III

4 sh

Students work toward more effective communication by developing physical, vocal and imaginative acting skills. Character development and improvisation create the core work leading to deeper understanding of actors' working methods. Performance reaction papers are required. Prerequisite: THE 220. Offered spring.

THE 222. FUNDAMENTALS OF MAKE-UP DESIGN AND APPLICATION

2 sh

Students learn the basic art of two-and three-dimensional stage make-up design and application, including corrective, age, fantasy and prosthetics. Students must purchase a make-up kit. Offered fall and spring.

THE 223. THEATRE ENSEMBLE

1 sh

Students earn credit for performing in department productions. This course is repeatable. Prerequisite: admission by audition only. Offered fall and spring.

THE 225. VOCAL PRODUCTION I

1 sh

This course is designed to meet the needs of the beginning BFA acting student. Students will be introduced to various breathing and movement techniques, which will allow them as young artists to understand the use of the body and voice as an instrument. To begin to understand how to have "control" of the instrument and to physical-

ly relax when speaking and moving with the high emotional content that comprises all Theatre Art. They will begin to develop "actor warm-ups" that they will then continue to use and refine throughout their careers. They will be introduced to the techniques of graphically representing tongue muscularity utilizing first broad then narrow International Phonetic Alphabet transcription (for theatrical purpose.) They will be introduced to Transatlantic Speech as a reference dialect. Prerequisites: BFA Acting majors or permission of instructor only. Offered spring.

THE 226. VOCAL PRODUCTION II

1 sh

This course is designed to meet the needs of the advanced beginner BFA Acting student. Students will continue to build on the skills learned in THE 125 Vocal Production I – a continued journey into the experience of owning and controlling the artistic instrument including breathing, movement, International Phonetic Alphabet transcription and Transatlantic speech. Prerequisite: THE 225, BFA Acting majors or permission of instructor only. Offered fall.

THE 230. PLAYSRIPT ANALYSIS

4 sh

Students learn various methods of analyzing playscripts as a basis for interpretation for all theatre artists. Offered fall.

THE 301. THEATRE HISTORY AND LITERATURE I

4 sh

Students explore the origins of the art form and its development through the 17th century, emphasizing understanding the historical context of the text and its performance conditions and methods by studying representative plays of each period. A major research assignment is required. Offered fall.

THE 302. THEATRE HISTORY AND LITERATURE II

4 sh

Students further explore the evolution of the art form from the 17th century to the present with emphasis on understanding the historical context of the text and its performance conditions and methods by studying representative plays of each period. A major research assignment is required. Offered spring.

THE 310. ADVANCED PROJECTS IN THEATRE

2-4 sh

Advanced, experienced theatre students earn credit for assuming major responsibilities in department productions. May be repeated for credit. Prerequisites: permission of instructor, availability of projects. Offered fall, winter and spring.

THE 320. ACTING IV: SPECIAL TOPICS

2-4 sh

In this course for advanced performers, each semester examines a different topic such as audition techniques, stage dialects, acting for the camera and period style. Performance reaction papers are required. May be repeated for credit. Prerequisites: THE 220, 221 or permission of instructor; majors only. Offered fall and spring.

THE 325. VOCAL PRODUCTION III

1 sh

This course is designed to meet the needs of the intermediate BFA Acting student. Students will continue to learn to apply vocal exercises and warm-ups by designing their own versions, based on the information provided in THE 225 and 226. Students will learn how to use their phonetic tools to analyze both classical and contemporary dialog and verse to better understand why a playwright has chosen specific sounds and words, and how as performers they might bring these sounds to organic life. They will learn how to use sounds as tools for organic acting. They will be introduced to scansion technique for verse speaking, phonetic length and technical analysis of both poetic and contemporary writing. Prerequisite: THE 225, 226, BFA Acting majors or permission of instructor only. Offered spring.

THE 326. VOCAL PRODUCTION IV

1 sh

This course is designed to meet the needs of the upper level BFA Acting major. Students will continue to develop and experiment with various techniques, develop.

clarify and warm-up the voice and speech mechanism and will engage in an in-depth study of accents and dialects. Students will learn how to develop “recipes” to provide for accurate and consistent acoustically appropriate dialects and accents using the International Phonetic Alphabet transcription and Transatlantic speech as their reference dialect. Students will become proficient with at least two or three dialects and be exposed to several more. Prerequisites: THE 225, 226, 325, BFA Acting majors or permission of instructor only. Offered fall.

THE 330. PLAYWRITING

4 sh

Students learn the skills, working methods and processes of theatrical playwriting by studying playscripts, known playwrights and strenuous writing assignments. Study culminates in a completed one-act script.

THE 363-64. WINTERSTOCK THEATRE

4 sh

Students earn credit for participation in departmental productions during winter term. Prerequisite: by audition only. Offered winter.

THE 430. PLAY DIRECTION

4 sh

Working methods of the stage director, from analysis through rehearsal, are the focus of this study, which culminates in a scene project by each student. Discussion emphasizes decision-making and communicating with actors. Production reaction papers are required. Prerequisites: THE 230. Offered spring.

THE 440. SPECIAL TOPICS IN THEATRE PRODUCTION AND DESIGN

2-4 sh

Students conduct an in-depth examination of a different topic each semester, such as scenic design, lighting design, costume design, production stage management and technical direction. Production reaction papers are required. May be repeated for credit. Prerequisites: THE 210.

THE 495. SENIOR SEMINAR

4 sh

This capstone experience for senior Theatre Arts majors concentrates on two areas: a practical project demonstrating proficiency in the field and preparation for graduate study or work in the profession. Prerequisite: senior majors only. This course is two semesters in length. Students must take both semesters. Offered fall and spring.

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Women's Studies/Gender Studies

Coordinator: Assistant Professor A.L. Jones

The Elon University Women's Studies/Gender Studies program offers an interdisciplinary collection of courses focusing on the study of women, the ways men's and women's lives have been organized around gender, and gender inequality. Diverse faculty members offer rigorous, interesting courses that utilize up-to-date scholarship. The extensive course offerings differ from year to year and come from a variety of fields, including upper-level interdisciplinary seminars.

The Women's/Gender Studies program raises awareness of how gender interacts with differences based on nationality, race, socioeconomic class, religion, sexual orientation and age. It develops in students critical thinking about gender that will translate into a habit of analysis about the world around them. WG minors, who are both male and female, integrate knowledge across disciplines and seek to connect knowledge to the world around them. They are educated citizens committed to justice and equality.

A minor in Women's/Gender Studies complements any major and contributes to personal growth as well. Elon WG minors go to graduate school; they have careers in social services, business, politics, teaching and many other fields and they make a distinctive impact on their families and communities.

An independent major in Women's Studies/Gender Studies is also possible.

A minor in Women's Studies/Gender Studies requires the following:

WGS 300	Current Controversies in Feminism	4 sh
Sixteen semester hours chosen from these courses:		16 sh
GST 270-WG	Women, Men and Society	
ECO 317-WG	Economics of Gender	
ENG 333-WG	Women in Literature: Feminist Approaches	
ENG 356-WG	The Novel: British Women Writers	
ENG 361-WG	Gender Issues in Cinema	
GST 110-WG	The Global Experience	
GST 257-WG	Women, Culture and Development	
GST 369-WG	Men and Masculinity	
HST 364-WG	History of Women in the United States	
PHL 345-WG	Feminist Philosophy	
POL 241-WG	International Relations	
PSY 215-WG	Psychology of Personal Relationships	
PSY 315-WG	Psychology of Sex and Gender	
REL 347-WG	Women and Religion	
SOC 311-WG	The Family	
SOC 345-WG	Sociocultural Perspectives on Gender	
WGS 371-379	Special Topics in Women's Studies/Gender Studies	
WGS 461-469	Seminars on Various Topics	
WGS 481	Internship in Women's/Gender Studies (one to four semester hours) or discipline-specific internship cross-listed with WG)	
WGS 491	Independent Study (1-4 sh)	

TOTAL	20 sh
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* Other courses cross-listed with disciplines will be offered from time to time, with a suffix "WG" or parenthetical phrase indicating that they may be used to fulfill Women's Studies/Gender Studies requirements.

WGS 300. CURRENT CONTROVERSIES IN FEMINISM 4 sh

This interdisciplinary course, designed for students ready to do advanced work, will explore several of the most highly contested issues within feminist thought and activism. Particular attention will be paid to writings by women marginalized by race, class, nationality and/or sexuality. Students will be expected to undertake a research project and/or activism. Offered spring semester.

WGS 371-379. SPECIAL TOPICS IN WOMEN'S STUDIES/GENDER STUDIES 4 sh

WGS 461-469. SEMINARS ON VARIOUS TOPICS 4 sh

These interdisciplinary seminars combine two or more approaches in feminist and/or gender scholarship, with varying concentrations on significant topics. Prerequisites: junior standing and two women's studies/gender studies courses.

WGS 481. INTERNSHIP IN WOMEN'S STUDIES/GENDER STUDIES 1-4 sh

Teaching, research, service and occupational internships focusing on women/gender issues are offered. Prerequisites: two Women's Studies/Gender Studies courses and permission of coordinator.

WGS 491. INDEPENDENT STUDY 1-4 sh



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A.B., Elon College; M.A., Ph.D., The University of North Carolina at Chapel Hill; Postdoctoral Study, The Johns Hopkins University; Sc.D., Catawba College; LL.D., Campbell University

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Assistant Professor of Economics

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B.S., Mississippi University for Women; M.S., University of Northern Iowa; Ph.D., Temple University

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Cynthia D. Fair, 1999

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Steven House, 2001

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Maureen E. Ihrie, 2001

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Charles Irons, 2003

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G. Smith Jackson, 1994

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B.S., M.A., University of Alabama; Ed.D., Auburn University

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B.S., Jan van Essen Academy; M.S., United States Sports Academy; Ed.D., Nova Southeastern University.

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William Ray Johnson, 1984

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Angela Lewellyn Jones, 1999

Assistant Professor of Social Justice
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B.S., University of Alberta, Edmonton; M.S., Ph.D., McGill University

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Instructor in HHP; Assistant Football Coach
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Professor of Education; President
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B.A., University of Lyon; M.A., University of South Carolina; Ph.D. (French), The Florida State University

Sharon LaRocco, 1989

Instructor of Music; University Accompanist.
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Ann Lashley, 1994

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Yoram Lubling, 1991

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Carol Magee, 2002

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Instructional Support Liaison

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Instructional Technology Services*

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Coordinator of Media Technology & Services

William Brown

Media Technician

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Media Technician

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Chief Engineer

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Senior Video Producer

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Director of Information Systems and Technologies

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*Manager, Information Systems and Technologies
Operations*

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Thomas Teapole II, A+ Certification

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Programmer Analyst

Julie L. White, B.S., B.S.

Programmer

Hobie Howe, B.A., B.S.

Programmer

PC Support

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Director of PC Support

Michael D. Allred Jr., A.A.S.

Computer Hardware Support Specialist

John Malpass

Computer Hardware Support Specialist

Stefanie L. Barbour, A.A.S.

PC Support Software Specialist

Anthony E. Bennett

PC Support Software Specialist

Sandra Kay Carroll, A.A.S.

PC Support Software Specialist

Melanie D. Brookbank, A.A.S.

Computer Support Software Specialist

Darryl L. McIntyre

Computer Hardware Support Specialist

David Morton

Apple Systems Engineer

Angie Cates, B.S.

Help Desk Associate

Michelle Woods

Help Desk Associate

Chris Spires

Help Desk Associate

Wayne Thompson

PC Support Hardware Specialist

Physical Plant

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W. Stanley Greeson

Assistant Director of Physical Plant

Paul C. Holt, A.A.S.

Utilities Manager

Thomas E. Flood, A.S.L.A.

Superintendent, Landscaping and Grounds

Keith R. Dimont

Automotive Services Supervisor

Jim Stovall
Carpentry and Key Shop Supervisor

Sheryl Lynn Wall
Work Order Clerk

Carolyn Jones-Miles, A.A.S., B.S.
Budget Clerk

Paige Vignali
Utilities Clerk

Purchasing

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Director of Purchasing

Nancy V. Isley
Buyer, Furnishings

Wayne Thompson
Buyer, Physical Plant

Paula Wilkerson
Secretary

Campus Safety and Police Department

Police

Charles Gantos, B.S.
Chief of Police, Director of Safety and Police

Timon Linn, B.A.
Associate Director of Safety and Police

Doug Dotson
Campus Police Officer

Darrell Gantt
Campus Police Officer

Dan Ingle, B.A.
Campus Police Officer

Eddie King
Reserve Campus Police Officer

Vickie Moehlman, A.A.S.
Campus Police Officer

Cory Ray, A.A.S.
Campus Police Officer

Christopher Sweat
Campus Police Officer

Darla White
Campus Police Officer

Brad Wilson
Campus Police Officer

Security

Allen Poe
Assistant Director; Campus Safety Officer

Nelson Gunn
Security Officer, Traffic Coordinator

Louis Adams
Campus Security Officer

Bryan Boyd
Campus Security Officer

Mike Carson
Campus Security Officer

Robert Carter
Campus Security Officer

Stuart Cozort
Campus Security Officer

David Cummings
Campus Security Officer

Mike Davis
Campus Security Officer

Jeffrey Dixon
Campus Security Officer

Kim Farmer
Campus Security Officer

Mike Gregory
Campus Security Officer

Ken Herron
Campus Security Officer

Larry Higgins
Campus Security Officer

Steve Hunter
Campus Security Officer

Fran McKenna
Campus Security Officer

Steve Russell
Campus Security Officer

Jason Vincent
Campus Security Officer

Brad Young
Campus Security Officer

Drivers (Tram & Shuttle)

David Cheek
Shuttle Driver

Billy Crayton
Shuttle Driver

Ronnie Hensley
Tram Driver

Chris Miles
Tram Driver

Bobby Morris
Shuttle Driver

Landy Patton
Tram Driver

David Ross
Tram Driver

Dispatchers

Rachelle Barfield
Dispatcher

Dana Justice
Dispatcher

Carol Straughan
Dispatcher

Administration

Jean Courtney
Traffic Assistance

Sue Johnson
Secretary

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Secretary to the Vice President for Institutional Advancement

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Director of Development Research

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Director of Development for Athletics

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Director of Gift Planning

Jimma J. Causey
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Melissa L. Potter, B.A.
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Director of Advancement Services

Rhonda C. Owen.

Coordinator of Gift Records

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Coordinator of Public Services

Connie L. Keller, B.A., M.A.L.S.

Coordinator of Technical Services

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Marian T. Buckley

Library Secretary

Ray Cruitt, B.A.

Weekend Librarian

Dwight Davis, A.A.S.

Late Night Building Monitor

Delanor Dickerson

Technical Services Clerk

Irene Gibson

Morning Circulation Clerk

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Microforms/Dindery Assistant

Sandra B. Kilpatrick

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Lynn Melchor

Interlibrary Loan Coordinator

Jennifer Rivers

Technical Services Acquisitions Clerk

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Assistant to the Registrar for Statistical Analysis
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Cheryl Ward Loy
Registration-Graduation Assistant

Suzanne Sioussat, A.A.S.
Transcript/Certification Coordinator

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Christopher Troxler, B.A., M.A., LCSW
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Robert Ellington, M.D.
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Director of Health Services

Jamie Canada
Secretary to Health Services

Linda Springs
Receptionist to Health Services

Kimberly Werr
Part-time Receptionist for Health Services

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Nancy Henley, R.N.
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Jeanne Sutton, R.N.
University Nurse

Janice Magee, R.N.
University Nurse

Julie Small, R.N.
University Nurse

Natasha Jones, CMA
University Medical Assistant

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Nurse Practitioner

Brenda Deese, Pharm D
Consulting Pharmacist

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*Jefferson-Pilot Professor of Business
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Development*

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*A. J. Fletcher Professor of Communications;
Associate Professor of Communications*

James Fred Young, A.A., B.S., M.A., Ed.D.
Professor of Education; President Emeritus

Title II Report on Teacher Education

April 2003

Overview of the Institution

Elon University is a comprehensive, coeducational, residential college located in the heart of the Piedmont near Burlington, North Carolina. Founded in 1889, Elon is the third largest of North Carolina's 36 private colleges and universities.

Elon offers its 4,300 students a dynamic academic program featuring a solid liberal arts education and excellent professional programs in business, communications and education. Elon also is a national leader in experiential education. Students regularly connect knowledge with experience in programs such as study abroad, internships, research, service learning and leadership. With 46 undergraduate majors, an average class size of 24, a 16-1 student-faculty ratio and world-class facilities, Elon provides an ideal learning environment where students are encouraged to investigate for themselves and become independent learners. Elon faculty are devoted to teaching and are accessible to their students. Eighty-five percent hold the highest degrees in their fields.

The 2001 National Survey of Student Engagement found that Elon is among the nation's top schools in five benchmarks of academic excellence — level of academic challenge, active learning, interaction with faculty, educational opportunities outside the classroom and supportive campus environment. In addition, Elon ranked in 9th place out of 130 Southern regional universities in the 2002 U.S. News & World Report's America's Best Colleges rankings.

Elon offers students exciting opportunities and academic challenge with six selective, four-year Fellows programs. They are Honors Fellows, Science Fellows, Journalism and Communications Fellows, Leadership Fellows, Jefferson-Pilot Business Fellows and the North Carolina Teaching Fellows Program.

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Outside the classroom, Elon students have many opportunities to put their learning into practice and grow personally. There are more than 100 student organizations, including academic honor societies, intramural and club sports, Greek organizations, student media and performing ensembles. Elon also has 16 teams that compete in NCAA Division I (I-AA football) and the Big South Conference.

Special Characteristics

Elon's low student-faculty ratio of 16-1 gives teacher education students the advising, academic challenge and support services they need to become successful teachers. The program offers students the opportunity to begin field experiences as early as spring semester of the freshman year, enabling students to make an informed decision about entering teaching early in their college career. This early field experience is followed by more extensive field experiences as part of methods courses, which come after students have been formally admitted to the program. Thus, the Elon teacher education student enters the student teaching semester with two or three semesters of school experience.

Elon University is one of the fourteen campuses participating in the North Carolina Teaching Fellows Program. Elon is the only private, coeducational campus in the program.

Supplemental Descriptive Information to Provide a Richer Picture of the Efforts to Provide High Quality Teacher Education

Elon University works closely with public schools through a variety of activities, including program development, grant writing, team teaching, and service on committees. A new initiative is the Office of School Outreach Programs. The mission of this program is to provide ongoing support efforts to provide assistance to teachers, students, parents, and administrators in the local schools. Current projects in which this office is involved include assisting “at-risk” public schools and creating a Professional Development Academy which is offering professional development seminars, workshops, and courses to beginning, lateral entry, and career teachers. The School Outreach office has created a support system for National Board Certification process for local teachers; provided instructors for AIG licensure coursework for selected local teachers; and sought grants and business/industry sponsorships for collaborative projects with local public schools.

Each year two Elon University teacher education faculty members spend a semester in the public schools, working directly with a teacher in his or her classroom. Public school teachers teach classes at Elon; and teachers and administrators serve as guest lecturers in classes and the student teaching seminar. Representatives from the Alamance-Burlington Schools serve as voting members on the Teacher Education Committee and the M.Ed. Advisory Committee assisting with program design and revision. Public school teachers served on the Technology Portfolio review teams to assess the technology portfolios developed by student teachers. Elon is a member of the Piedmont Alliance with area IHEs, the Alamance-Burlington Schools, Guilford County Schools and Winston-Salem/Forsyth County LEAs. The Alliance collaborates on issues related to student teaching and other practicum experiences and legislative issues affecting teachers. Elon has made college facilities available rent-free for the Alamance-Burlington Schools for staff development programs. Also, two teachers from the Alamance-Burlington Schools served on the Elon committee to select the recipient of Elon’s highest teaching award

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INSTITUTIONAL REPORT CARD

Pass-Rate Data: Regular Teacher Preparation Program

Academic Year: 2002-2003

Testing Period: 10/02-9/03

Number of Program Completers: 99

Specialty Area/ Professional Knowledge	Number of Students Taking Test	Percent of Students Passing Test
Biology (9-12)	0	★
Chemistry (9-12)	0	★
Elementary Education (K-6)	51	92%
English (9-12)	9	★
French (K-12)	0	★
Health Education (K-12)	0	★

Specialty Area/ Professional Knowledge	Number of Students Taking Test	Percent of Students Passing Test
Language Arts (6-8)	2	*
Mathematics (6-8)	3	*
Mathematics (9-12)	5	*
Music (K-12)	6	*
Physical Education (K-12)	5	*
Physics (9-12)	0	*
Science (6-8)	1	*
Science (9-12)	0	*
Social Studies (6-8)	1	*
Social Studies (9-12)	1	*
Spanish (K-12)	1	*
Teaching Learning Disabled (K-12)	3	*
TOTAL	88	93

*Individual test scores not reported if fewer than 10; TOTAL includes all test takers.

Section II. Program Information

Number of student in the regular teacher education preparation program

Total number of students admitted into teacher preparation, all specializations,
in academic year 2002-2003

288

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Information about supervised student teaching

Number of students in supervised student teaching in academic year 2002-2003

99

Number of faculty members who supervised student teachers:

(1) Full-time faculty in professional education

8

(2) Part-time faculty in professional education, but full-time in the institution

7

(3) Part-time faculty in professional education, not otherwise employed
by the institution

8

Total faculty student teaching supervisors

23

Student teacher/ faculty ratio

4.3/1

The average number of student teaching hours per week required

40

The total number of weeks of supervised student teaching required

14

Average total number of student teaching hours required

560

Information about state approval or accreditation of teacher preparation programs

Is your teacher education program currently approved or accredited by the state?

Yes

Is your teacher preparation program currently under a designation
as low-performing by the state (as per Section 208(a) of the HEA of 1998)?

No

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ELON UNIVERSITY

Office of Admissions and Financial Planning

100 Campus Drive

2700 Campus Box

Elon, NC 27244-2010

800-334-8448

admissions@elon.edu

www.elon.edu

Non-Profit

Organization

US Postage

PAID

Permit No. 1

Elon, NC

27244-2010

ELON

An aerial, black and white photograph of a large, circular pond on a campus. The pond is the central focus, with its surface reflecting light. Several groups of people are gathered around the pond: some are sitting on the low stone or concrete wall that encircles it, while others are standing nearby. In the foreground, a person is riding a bicycle across a paved area, and another person is walking. The background shows more of the campus, including a fence and trees, though they are less distinct due to the high angle and focus on the pond.

ACADEMIC CATALOG 2005-2006



ELON

UNIVERSITY

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Elon University, Elon, N.C. 27244.

Elon University does not discriminate with regard to race, color, religion, sex, age, national or ethnic origin, veteran status or disability in the recruitment and admission of students, the recruitment and employment of faculty and staff or the operation of any of its programs. Students with documented disabilities may request in writing reasonable special services and accommodations. Questions should be directed to Ms. Priscilla Lipe, disability services coordinator, Duke 108H, 336-278-6500.

The university's Section 504 coordinator for students and the Title IX coordinator is Dr. Smith Jackson, Alamance 109, 336-278-7220. The university's Section 504 coordinator for applicants and current employees is Mr. Ronald Klepcyk, 314 W. Haggard Ave., 336-278-5560.

Elon University reserves the right to add or drop programs and courses, to institute new requirements when such changes are desirable and to change the calendar that has been published. Every effort will be made to minimize the inconvenience such changes might create for students.

The Elon University academic catalog is compiled by the Office of the Registrar, Alamance 102, 336-278-6677.



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Communications with Elon University

Contacting offices at Elon University

Individuals who would like more information about Elon University should contact the offices listed below. All written correspondence should be sent to **Elon University, Elon, NC 27244**. The University's switchboard number is **(336) 278-2000**. E-mail addresses and office fax numbers may be secured through the institution's Web site, <http://www.elon.edu>.

President

- General information

Provost/Vice President for Academic Affairs

- Administrative and student life policies
- Long-range plans
- Academic program and special programs
- Faculty positions

Dean of Admissions and Financial Planning

- Requests for undergraduate applications, catalogs or bulletins
- Scholarships, student loans and student employment

Director of Graduate Admissions

- Requests for applications, catalogs or other information

Vice President for Student Life/Dean of Students

- Housing
- Student life

Vice President for Business, Finance and Technology

- Administrative services
- Payment of student accounts
- Inquiries concerning expenses

Vice President for Institutional Advancement

- Contributions, gifts or bequests
- Estate planning
- Publications/public relations

1

Director of Career Center

- Career options for students and alumni
- Employment and internships for students and alumni

Registrar

- Requests for transcripts
- Evaluation of transfer credits, IB and AP credits
- Student educational records
- Course registration
- Exit interviews for graduating seniors
- Pre-approval for transfer credit
- VA coordinator

Director of Academic Advising

- Course scheduling
- Academic advising

Dean of International Programs

- Study abroad

Director of Alumni and Parent Relations

- Alumni affairs
- Parent relations

Organization of Academic Units

The institution is organized into one college and three schools. These include areas of learning arranged as follows:

SCHOOLS/COLLEGE/DEPARTMENTS

Provost/Vice President for Academic Affairs

Elon College, The College of Arts and Sciences

Dean: S. House

African/African-American
 Studies
 Anthropology
 Art
 Asian/Pacific Studies
 Biology
 Chemistry
 Classical Studies
 2 Computer Information
 Systems
 Computer Science
 Criminal Justice
 Dance
 Engineering
 English
 Environmental Studies
 Fine Arts
 French
 Geographic Information
 Systems
 Geography
 History
 Human Services
 International Studies
 Latin American Studies
 Mathematics

Medical Technology
 Multimedia Authoring
 Music
 Music Education
 Music Theatre
 Non-Violence Studies
 Philosophy
 Physics
 Political Science
 Professional Writing
 Studies
 Psychology
 Public Administration
 Religious Studies
 Science Education
 Sociology
 Spanish
 Theatre Arts
 Theatre Studies
 Theatrical Design and
 Production
 Women's Studies/Gender
 Studies

Professional Schools

The Martha And Spencer Love School of Business

Dean: Burbridge

Accounting and Finance
 Business Administration
 Economics
 MBA

School of Education

Dean: Dillashaw

Athletic Training
 Education
 Exercise Sports Science
 Leisure/Sport Management
 Military Science
 Physical Education
 DPT
 M.Ed.

School of Communications

Dean: Parsons

Communications
 Journalism

Elon Web-Based Information

The Web site listed below provides current information on Elon's programs and services that are not described in this catalog. All sites may be reached through <http://www.elon.edu/catalogresources/>.

Additional information about Elon may be found at <http://www.elon.edu>.

Campus Facilities

- Campus Tour
- Campus Residence Halls
- Dining Facilities
- Belk Library
- Moseley Center
- Health Services
- Counseling Services
- Athletics Facilities

Admissions

- Admissions Requirements
- Application Forms
- Early Decision Plan
- Transfer Credit
- High School Credit Bank Program
- International Student Admission
- Advanced Placement Examination
- International Baccalaureate
- College-Level Examination Program
- Tuition Exchange

Financial Aid Opportunities

- Cost and Financial Aid
- Need-based Assistance
- Assistance not Based on Need
- Loan Options
- Applying for Financial Aid
- Payment Options
- Endowed Scholarships

Academic Fellows Programs

Student Life

- Overview of Student Services
- Campus Housing
- New Student Orientation
- Student Government Association
- Judicial System
- Campus Safety and Police
- Cultural Life
- Religious Life
- Multicultural Affairs

- Service Learning
- Leadership Program
- Organizations
- Activities
- Communications Media
- Campus Recreation

Academic Support Services

- Academic Advising
- Disability Services
- Career Center
- Peer Tutoring
- Writing Center
- El Centro de Español
- Elon 101

Technology Services

- Computer Resources
- Television Services
- Media Services

Faculty/Staff/Student Directory

3

History of Elon

Traditional Events at Elon

- Chapel
- College Coffee
- Convocation for Honors
- Family Weekend
- Founders Day
- Graduation Celebrations
- Greek Week
- Holiday Celebration
- Homecoming
- New Student Convocation
- SURF/Assessment Day
- "Turning 21"

Graduate Programs

- MBA
- M.Ed.
- MPT/DPT

Calendar

Fall Semester 2005

August 26	Fri.	Orientation
August 27	Sat.	Orientation; Registration
August 29	Mon.	Drop-Add Day
August 30	Tues.	Classes Begin
September 5	Mon.	Last Day for Late Registration
October 14	Fri.	Mid-Semester Grades Due at 3:00 p.m.
October 14	Fri.	Fall Break Begins at 2:30 p.m.
October 19	Wed.	Fall Break Ends at 8:00 a.m.
October 21	Fri.	Last Day for Dropping Course with "W"
October 31	Mon.	Last Day to Remove Incomplete "I" and "NR" Grades
November 2	Wed.	Preregistration Begins for Winter Term & Spring Semester 2006
November 22	Tues.	Thanksgiving Holiday Begins Following Evening Classes
November 28	Mon.	Thanksgiving Holiday Ends at 8:00 a.m.
December 7	Wed.	Classes End
December 8	Thurs.	Reading Day (Evening Exams Begin)
December 9-14	(Fri.-Wed.)	Examinations
December 16	Fri.	Grades Due at 10:00 a.m.

Winter Term 2006

January 2	Mon.	Registration
January 3	Tues.	Classes Begin
January 4	Wed.	Last Day for Late Registration
January 12	Thurs.	Last Day for Dropping Course with "W"
January 16	Mon.	Martin Luther King Jr. Holiday
January 23	Mon.	Classes End
January 24	Tues.	Examinations
January 26	Thurs.	Grades Due at 10:00 a.m.

Spring Semester 2006

January 30	Mon.	Registration
January 31	Tues.	Classes Begin
February 6	Mon.	Last Day for Late Registration
March 17	Fri.	Mid-Semester Grades Due at 3:00 p.m.
March 17	Fri.	Spring Break Begins at 2:30 p.m.
March 27	Mon.	Spring Break Ends at 8:00 a.m.
March 29	Wed.	Last Day for Dropping Course with "W"
April 6	Thur.	Last Day to Remove Incomplete "I" and "NR" Grades
April 10	Mon.	Preregistration Begins for Summer and Fall 2006
April 14	Fri.	Easter Holiday Begins at 2:30 p.m.
April 18	Tues.	Easter Holiday Ends at 8:00 a.m.
April 25	Tues.	Assessment Day/SURF
May 9	Tues.	Classes End
May 10	Wed.	Reading Day (Evening Exams Begin)
May 11-16	(Thurs.-Tues.)	Examinations
May 17	Wed.	Senior Grades Due at 9:00 a.m.
May 19	Fri.	Grades Due at 10:00 a.m.
May 20	Sat.	Commencement; Last Day of School

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Summer School 2006

Summer Session One

May 30 - Registration
 May 31 - First Class Day
 June 29 - Last Class Day
 June 30 - Final Exams

Summer Session Two

July 6 - Registration
 July 7 - First Class Day
 July 27 - Last Class Day
 July 28 - Final Exams

Facts About Elon

Overview

Elon University is a premier small, private university on a campus of 575 acres in the town of Elon, North Carolina. Elon is the third largest of the 36 private colleges and universities in the state. For additional information about Elon, go to www.elon.edu/e-net.

Location

Located in the Piedmont Triad area, 20 minutes east of Greensboro and 30 minutes northwest of Durham and Chapel Hill

Exit 140 on Interstate 85/40

Accessible to airports (Raleigh/Durham and Greensboro) and Amtrak (Burlington)

Visitor Information www.elon.edu/admissions/visit.aspx

History

Opened in 1889 as Elon College; affiliated with United Church of Christ

Sustained a major fire in 1923 and was rebuilt 1923-1926

Recent construction includes Belk Library, Rhodes Stadium, Academic Pavilions, Belk Track and White Field

6 Became Elon University June 1, 2001

For Elon history, see: <http://www.elon.edu/catalogresources>

Students

Fall 2004 enrollment totaled 4,796 students, including 174 graduate students

70 percent of students from out of state

Students are from 47 states and 40 foreign countries

Faculty

261 full-time faculty in 2004-05

85 percent of faculty have terminal degree

Student-to-faculty ratio is 15:1

Programs

132 credit hours required for graduation

Most courses are 4 credit hours

48 majors available

Average class size is 22 students

Co-curricular programs in internships, study abroad, undergraduate research, leadership and community service

Primarily daytime classes with limited evening offerings

Undergraduate Calendar

Fall semester: four months, late August to mid-December

Winter term: four-week January term

Spring semester: four months, early February to mid-May

Summer: Session 1 in June, Session 2 in July

Accreditation

Elon University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097; telephone number: 404-679-4501) to award bachelor's and master's degrees and the doctor of physical therapy degree.

Elon's teacher education program is accredited by the National Council for Accreditation of Teacher Education and by the North Carolina State Department of Public Instruction.

Elon's Martha and Spencer Love School of Business is accredited by AACSB-International.

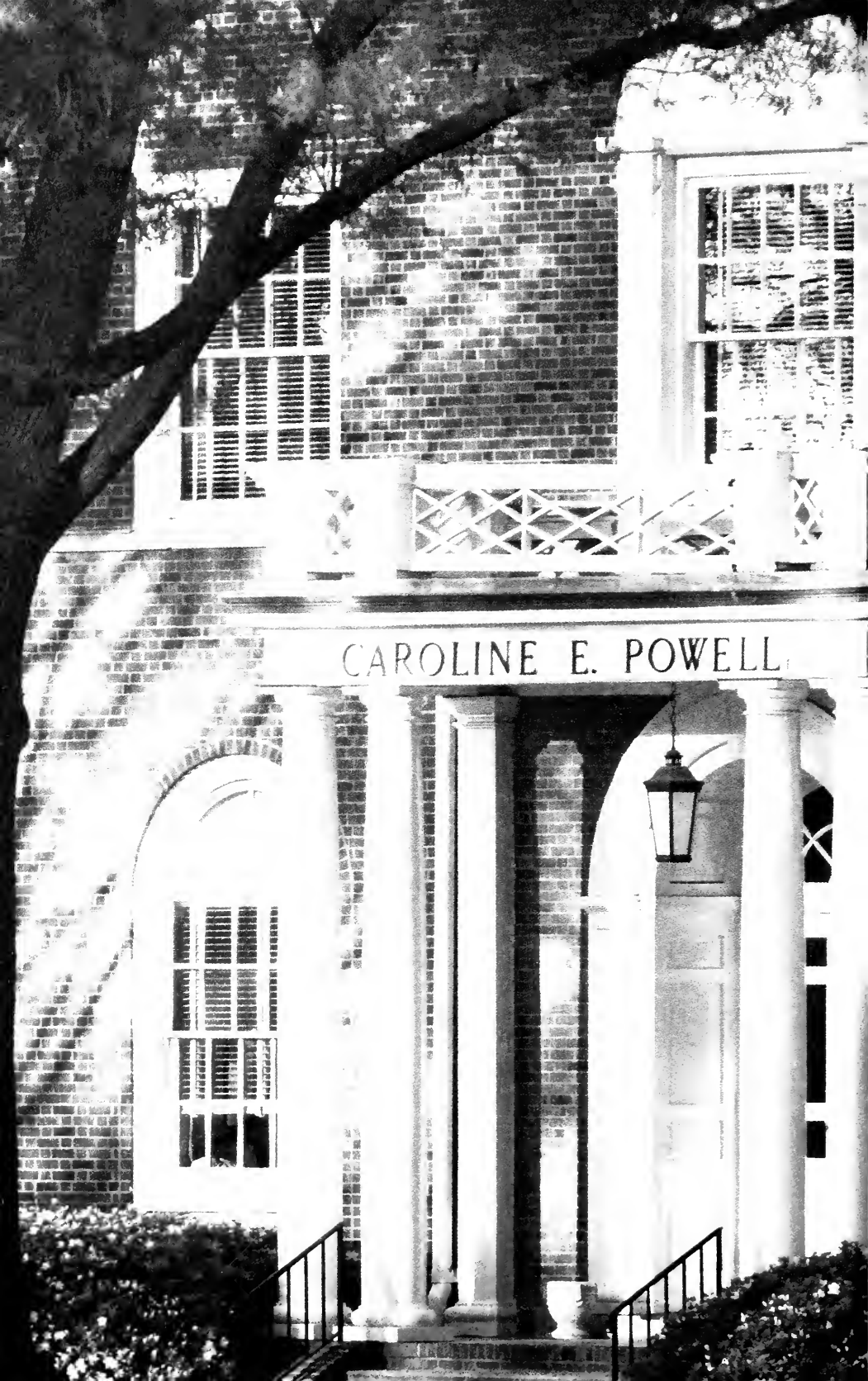
Elon's physical therapy education program is accredited by the Council on Accreditation for Physical Therapy Education.

Elon University is included on the list of colleges and universities approved by the American Chemical Society. Students satisfying the requirements listed for the BS degree with a major in chemistry will be ACS certified upon graduation.

7

The university is a member of the following associations:

- The American Council of Education
- The American Association for Higher Education
- The American Association of Colleges for Teacher Education
- The Association of American Colleges
- The Commission of Accreditation of Allied Health Education Programs
- The North Carolina Association of Colleges and Universities
- North Carolina Independent Colleges and Universities
- The National Association of Independent Colleges and Universities
- The European Council of International Schools
- Association of Independent Liberal Arts Colleges for Teacher Education
- National Council for Accreditation of Teacher Education
- Independent College Fund of North Carolina
- The Council of Independent Colleges
- The Council for Higher Education of the United Church of Christ
- The International Association for Management Education
- Associated New American Colleges
- Council on Accreditation of Allied Health Education Programs



CAROLINE E. POWELL

Admissions

Freshman Applications

Elon University applications are available from many high school guidance offices, online at www.elon.edu or directly from the Office of Admissions, 100 Campus Drive, Elon, NC 27244. Telephone: 800-334-8448 or 336-278-3566. E-mail: admissions@elon.edu. Elon also accepts the Common Application in paper format.

Freshman Application Procedures

Freshman applicants must submit:

1. Completed and signed application
2. \$40 application fee
3. Official high school transcript
4. Official SAT I or ACT test scores, including writing section
5. Counselor Evaluation Form

The SAT or ACT should be taken late in the junior year and again early in the fall of the senior year. In making admissions decisions, Elon will combine the highest math and verbal scores from all test scores submitted. It is important to ensure that we receive all test scores that are available.

9

Freshman Application Deadline

	Application Deadline	Notification Date	Enrollment Deposit Date
Early Decision (binding)	November 1*	December 1	January 10, non-refundable
Early Action (non-binding)	November 10*	December 20	May 1
Final Freshman Deadline	January 10*	March 15	May 1
Deadline for Fellows application	January 10**		

***All deadlines are postmark dates. All materials needed to complete your application must be postmarked by the stated deadline.**

****Students who are applying to the Fellows programs must submit a completed freshman application and the Fellows application by the January 10 deadline. Students selected for the Fellows competition will be notified of their admissions decision at the time the Fellows invitation is extended in early February.**

Tuition Exchange applicants must submit a completed application and the letter of institutional authorization no later than the November 1 deadline.

The Early Decision Plan

Application Deadline: November 1

Notification Date: December 1

Students whose first choice is Elon are encouraged to apply Early Decision. The Early Decision agreement is a binding agreement that a student will enroll at Elon if accepted. Students accepted for Early Decision agree to withdraw applications from all other colleges and submit a nonrefundable U.S. \$400 deposit to Elon by January 10.

There are several advantages to being accepted under the Early Decision plan:

- the opportunity to attend the first Spring Orientation Weekend
- priority consideration for housing and registration
- an early financial aid estimate

Early Action Plan

Application Deadline: November 10

Notification date: December 20

Students who would like an early answer on their application status may apply Early Action. Early Action is non-binding, and students are permitted to apply to other schools as well as Elon.

Regular Decision Plan and Fellows Application Deadline

Application Deadline: January 10

Notification date: March 15

This is the final application deadline for freshman admissions. Applications received after this date will be considered on a space-available basis.

The Fellows application must be submitted by January 10. Students selected for the Fellows competition will be notified of their admissions decision at the time the Fellows invitation is extended in early February.

Freshman Admission Requirements

Admission to Elon is competitive. Elon seeks students from a variety of backgrounds with strong academic preparation who can contribute to and benefit from the university's many scholastic and extracurricular programs.

The most important factors in the admissions decision are the academic record (including courses taken and grades attained) and standardized test scores. Other factors which may be considered include leadership potential, extracurricular and service-related activities, special talents, relationship with the university and the ability to contribute positively to the campus community. Other than the Counselor Evaluation Form, recommendations are not required but will be included in the application file if submitted.

A student's high school academic record is a primary factor in every admissions decision. In general, students should have taken a rigorous selection of college preparatory or higher-level courses throughout their four years of high school. The most promising candidates for admission will have demonstrated solid achievement in five or more academic subjects each year. Minimum preparation must include:

1. English.....4 units (required)
2. Math3 units required, 4 recommended
(Algebra I & II and Geometry are required)
3. Science.....3 or more units, including at least one lab science
4. Social Studies3 or more units, including U.S. History
5. Foreign Language2 units required, 3 recommended
(Students who have not completed at least two units in one foreign language must complete a 121-level foreign language course at Elon in addition to meeting the foreign language requirement for graduation.)

Freshman Admission Notification

Elon operates on a deadline admissions plan. Applicants will be notified of a decision according to the timetable listed above. Some applicants will be asked to submit new information to strengthen their chances for admission, usually with new SAT or ACT scores and/or first semester grades. All the files of the students who are asked to submit first semester grades will be reconsidered with the January 10 application pool and notified March 15.

All offers of admission are contingent upon satisfactory completion of the senior year courses. Elon reserves the right to withdraw an acceptance if the final grades are unsatisfactory.

Transfer Admission

Transfer students are admitted to Elon University based on their academic record at the institution from which they are transferring. In order to graduate, at least 60 semester hours must be completed at Elon, including the last term before graduation.

Transfer students are required to have 24 transferable college-level credits demonstrating a record of consistent success and a minimum cumulative GPA of 2.5. In addition, the student must be eligible to return to the last institution attended and be recommended by college or university officials.

In order to be considered for transfer admission a student must:

1. Submit a completed and signed Application for Transfer Admission with the \$40 application fee.
2. Have official transcripts sent from all two-year or four-year institutions attended.
3. Have a Dean's Evaluation Form completed by the dean of the last institution attended verifying eligibility. This form is not required if the student has received an associate degree.
4. Have an official final high school transcript and SAT or ACT scores sent. The SAT/ACT requirement may be waived for some advanced students or nontraditional students who did not take the test while in high school.

Transfer Admission Deadlines

The priority deadline for transfer applications for the fall semester is June 1; for spring semester, December 1. After these dates, applications will be considered on a space-available basis. (Students seeking housing on campus will want to apply as soon as possible, as housing for transfers can become limited.)

Transfer Credit

Students earn credit for college-level courses taken through college parallel programs at accredited junior colleges or community colleges and for courses taken at accredited four-year colleges and universities. Transcripts are evaluated and credit is awarded on a course-by-course basis after the student has been accepted for admission. The freshman course, GST 110 Global Studies, is waived for students transferring 18 hours or more. This applies to transfer students only, not freshmen entering college for the first time.

No more than 65 semester hours of credit will be allowed from two-year institutions. No credit is allowed for courses with a grade lower than "C-." Credit will not be given for courses taken while a student is under academic suspension.

International Student Admission

Elon University values intercultural experiences in education. International students from around 40 countries attend Elon each year. Prospective students from outside the United States can obtain admissions packets from the Office of Admissions. International students must submit the freshman application with a nonrefundable U.S. \$40 application fee, original secondary school transcripts and certified translations, official SAT or ACT scores, personal statement and, for students attending American and International Schools abroad, a completed Counselor Evaluation Form.

In addition to the SAT or ACT, the Test of English as a Foreign Language (TOEFL) is required unless English is the student's native language or the language of instruction. Presidential scholarships are available for students with outstanding academic records and SAT scores.

International students may apply online at Elon's Web site, www.elon.edu. Applications and documentation should be submitted as early as possible since it may take several months to receive and process forms from outside the United States. International inquiries may be directed to the office by calling 336-278-3566; fax is 336-278-7699; e-mail address is admissions@elon.edu. For complete information on international admissions, visit www.elon.edu/international/intadm.

Tuition Exchange

Elon University is a member of Tuition Exchange, Inc. For information about the Elon University tuition exchange policy, contact the Office of Admissions and Financial Planning, 800-334-8448, or visit www.elon.edu/catalogresources.

Enrollment Deposit for All Resident Students

To complete acceptance and reserve a room for fall semester 2006, an enrollment deposit of \$400 is recommended within one month of acceptance but no

later than May 1 for fall semester enrollment. (Exception: the nonrefundable \$400 deposit for Early Decision students is due no later than January 10.) For students who are accepted after May 1, the enrollment deposit is due within one week. Room assignments are made according to the date of deposit, with Early Decision students assigned first. For the spring semester, an enrollment deposit of \$400 is recommended within one month of acceptance but no later than January 1.

Refund Policy

The fall semester enrollment deposit may be refunded in full by notifying the Office of Admissions in writing prior to May 1. After that date, \$100 is refundable until June 15. Early Decision and spring semester enrollment deposits are not refundable. Exceptions to this policy must be authorized by the Dean of Admissions and Financial Planning and are generally limited to those students for whom Elon is not able to meet demonstrated financial need.

Enrollment Deposit for All Commuter Students

To complete admission for the fall semester 2006, an enrollment deposit of \$300 is requested within one month of acceptance but no later than May 1. For students accepted after May 1, the enrollment deposit is due within one week. The deposit is not refundable after May 1. For the spring semester, the \$300 enrollment deposit is due no later than January 1 and is not refundable.

Residency Requirement

Elon University has a two-year residency requirement. All first- and second-year students are required to live on campus except those who are living with their parent(s), nontraditional students and transfer students who have been out of high school one year or more. Priority for housing assignments is based on the date the enrollment deposit is received by Elon.

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Special Students

The university admits a limited number of special students who are not working toward degrees at Elon University. Special students include:

- Persons taking only private music instruction in the Department of Performing Arts. Such applicants are admitted if instructors are able to schedule lessons for them.
- High school graduates taking classes of special interest. Persons out of high school less than two years are required to submit a copy of their high school transcript and SAT/ACT scores.
- Visiting students from other colleges (an official transcript from current college required with the application.)
- College graduates interested in further study at Elon. Such applicants are admitted if they fulfill requirements for admission to the desired courses.
- College graduates working toward teacher licensure or relicensure. (Official college transcript required with application.)
- High school students taking classes on the Elon campus during their senior year. Credit for this work is generally transferable to other institutions. (Credit Bank application required and available through the admissions office.)

- Consortium students taking courses at Elon. These students must present the appropriate form from their current institution. Consortium members include Bennett College, Greensboro College, Guilford College, Guilford Technical Community College, High Point University, N.C. A&T University and UNC-G.
- Persons wishing to audit courses without doing the assigned preparation or receiving credit.

Special students may register for no more than eight hours per semester without approval of the Assistant Vice President of Academic Affairs. Students enrolled in the special admission category who want to pursue a degree must complete the appropriate application for regular admission.

Advanced Placement Examination

Students earning a score of four or better in the Advanced Placement Tests of the College Entrance Examination Board taken in high school may receive credit in the following fields: art, biology, chemistry, computer science, economics, English, environmental studies, French, German, geography, history, music, physics, political science, psychology, Spanish and statistics. A three or higher is required in calculus. Official scores should be sent to the Office of Admissions.

International Baccalaureate

Students earning a score of four to seven on higher level exams will receive at least four semester hours of credit. No credit is awarded for subjects passed at the standard level of IB. Scores should be sent to the Office of Admissions.

College-Level Examination Program (CLEP)

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The College-Level Examination Program (CLEP) of the College Board enables students to earn college credit by examination. Students desiring credit by examination must earn a scaled score of 50 on the General Examinations and the Subject Area Examinations. Credit may be awarded in the following areas: composition and literature, foreign language, history and social sciences, science and mathematics. Scores should be sent to the Office of Admissions.

Department Examination

Students may contact the chair of the department for details concerning the process of credit through examination at Elon in areas not covered above. The cost for each examination is \$588.

Credit for Veterans

Veterans entering Elon may transfer certified credits from various areas:

- Military personnel on active duty who wish to submit CLEP credits should see their Education Officers concerning CLEP tests or write to USAFI, Madison, Wisconsin.
- Work from other accredited postsecondary institutions may be accepted.
- Students with one year of active duty in military service will receive credit for the physical education requirement by bringing a copy of their DD-214 Form to the Registrar's Office for verification.





Finances and Financial Aid

General Costs

The cost of attending Elon University is purposely held at a reasonable level. The chart on page 18 gives the particular charges for resident and commuter students. Please note that there are special tuition rates for part-time students.

During registration, Student Government Association and health service fees are collected from all students enrolled for nine or more semester hours.

Costs Covered by Tuition

Included in the tuition fees are costs of registration, use of the library and recreational facilities, admission to home athletic events, admission to campus cultural events, student publications, post office box, regular laboratory fees and 12 to 18 semester hours of work, inclusive each semester.

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The tuition, fees and estimated book expenses do not include fees for special courses and special laboratory work which depend on the course of study undertaken. Personal expenses vary with the individual student. For the student who must earn money toward his/her university expenses, a number of work opportunities are available through the Career Center and the Human Resources Office.

The Meal Plan

All resident students are required to purchase a meal plan. The cost of the meal plans is established each spring, and students are notified in the summer before payments are due. Students living off-campus are also welcome to purchase a meal plan, use the Phoenix Card (a debit card for use in dining halls, the Campus Shop and select off-campus locations) or purchase individual meals in any of the six campus dining locations.

Book Expenses

The estimated cost of textbooks is \$900 for the academic year, including \$325 needed for purchases from the campus bookstore at the opening of fall semester.

Room Change Charge

Students changing rooms without permission of the Director of Residence Life are charged for both rooms.

Expenses for the 2005-2006 Academic Year

Full-Time Enrollment/Day Students (12-18 hours)

	Fall * Semester	Winter Term	Spring Semester
Tuition	\$9,349.50	\$588.00/hour	\$9,349.50
Room – Main Campus			
Double	1,556.00	415.00	1,556.00
Single	2,019.00	538.00	2,019.00
(Double as single)+	2,175.00	580.00	2,175.00
Room – Danieleley Center			
10 person flat	1,556.00	415.00	1,556.00
8 person flat	1,801.00	480.00	1,801.00
Board**(winter term billed with fall semester)			
5 Meal Plan	1,174.00	248.00	926.00
9 Meal Plan	1,732.00	364.00	1,368.00
11 Meal Plan	1,850.00	390.00	1,460.00
14 Meal Plan	2,045.00	430.00	1,615.00
17 Meal Plan	2,112.00	444.00	1,668.00
19 Meal Plan	2,235.00	470.00	1,765.00
18 Student Government	72.50		72.50
Health Service	52.50		52.50
Overload***	588.00/hour	588.00/hour	588.00/hour
Security Deposit (refundable, applies to residence hall students only)			100.00

*Students enrolled full time for either fall or spring semester (within the same academic school year) are not charged for winter term room or tuition if no overload exists in winter term. Students enrolled full-time fall semester but not attending winter term will be eligible for a credit for winter term board.

**5 Meal Plan - 5 dining hall meals per week and \$325 meal dollar balance each semester (fall and spring) and \$150 meal dollar balance winter term.

9 Meal Plan - 9 dining hall meals per week and \$85 meal dollar balance each semester (fall and spring) and \$30 meal dollar balance winter term.

11 Meal Plan - 11 dining hall meals per week and \$85 meal dollar balance each semester (fall and spring) and \$30 meal dollar balance winter term.

14 Meal Plan - 14 dining hall meals per week and \$85 meal dollar balance each semester (fall and spring) and \$30 meal dollar balance winter term.

17 Meal Plan - 17 dining hall meals per week and \$85 meal dollar balance each semester (fall and spring) and \$30 meal dollar balance winter term.

19 Meal Plan - 19 dining hall meals per week and \$85 meal dollar balance each semester (fall and spring) and \$30 meal dollar balance winter term.

Meal Plan Requirements:

Freshmen: Required to have at least the 11 meal plan in all residence halls, Danieleley Center K and Academic Village.

Sophomores: Required to have at least the 9 meal plan in all residence halls, Danieleley Center K, Greek houses and Academic Village. Students in university apartments must select at least the 5 meal plan.

Juniors: Required to have at least the 9 meal plan in all residence halls. Students in Danieleley Center K, Greek houses and Academic Village must select at least the 5 meal plan. Students in apartments are encouraged to select a meal plan.

Seniors: Required to have at least the 9 meal plan in all residence halls. Students in Danieleley Center K, Greek houses and Academic Village must select at least the 5 meal plan. Students in apartments are encouraged to select a meal plan.

Phoenix Card balances from meal plans are restricted for meals and food purchases only and are not refundable if not used. Meal plan money may not be used in the Campus Shop. Authorized changes in meal plans are permitted through the second week of fall and spring semesters. Any difference in price must be paid at the time of the change.

Part-Time Enrollment/Day Students and All Evening School

Tuition: 1-11 hours \$588/hour

Day students enrolled for 9-11 hours must pay SGA and health fees.

Evening students can enroll in no more than four semester hours in the day program.

Graduate Programs

MBA Tuition: \$392.00/hour

M.Ed. Tuition: \$322.00/hour

DPT/MPT Tuition: (Jan.-June, \$13,205.00; July-Dec. \$9,432.00)
\$22,637.00/year

Summer School 2006

	<i>Tuition</i>	<i>Room (Single)</i>	<i>Room (Double)</i>
Undergraduate	\$283/hour	\$473	\$375
MBA	\$392/hour		
M.Ed.	\$322/hour		

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Special/Optional Fees (No Refund After Second Week of Semester)

Applied music lessons:

Each one semester hour credit
or audit for nonmusic majors \$270/credit hour

First special instruction class for music majors \$155/credit hour
(for the first class and then the regular rate for every class thereafter)

Each one semester hour credit or audit for music majors
taking second or additional lessons \$270/credit hour

The deadline for refunds for art material fees will be the second week of the semester. No refunds will be given for materials that have been opened or used in any portion.

Charges for other courses with special fees are listed in the catalog and/or the course schedule.

Graduation Fees

Bachelor's Degree	\$70
Graduate's Degree	\$110

Miscellaneous Fees

Auditing per course	\$200
Late registration/Re-enrollment during term	\$25
Late payment	\$30
Transcripts	\$5
Security deposit (residence hall damage and key return, refundable upon completion of housing contract)	\$100
Examination for course credit	\$588
Automobile registration	\$15-\$55
Replace Phoenix Card	\$25
Returned check fine	\$25

A student's grade or graduate's diploma and transcripts will be withheld until his/her financial obligations to the university are settled. A student cannot register for further course work until financial obligations to the university are settled.

Refunds

Academic Year— Fall and Spring Semester*

Undergraduate, MBA, M.Ed.

20 Tuition and fees are refunded as follows:

- Students will receive refunds on a pro rata basis during the first eight weeks of the semester. Following is a table of pro rata charges:
 - 1st week pro rata charge 5%
 - 2nd week pro rata charge 10%
 - 3rd week pro rata charge 40%
 - 4th week pro rata charge 60%
 - 5th week through 8th week pro rata charge 75%
 - 9th week — no refund
- Room and board is refunded on a weekly pro rata basis. Refunds for board will be calculated based on the number of weeks enrolled, not by the number of meals used.

Exception to the above policy is as follows:

- Medical withdrawals will be handled on a case-by-case basis.

The effective date of withdrawal is determined by the Office of the Associate Dean of Student Life. Students and parents who believe circumstances warrant an exception from the published policy must appeal to Mr. Gerald Whittington, Vice President for Business and Finance, Alamance 113.

*Upon withdrawal, meal plan refunds are prorated.

Doctor/Master of Physical Therapy Program*

Students will receive refunds on a pro rata basis during the first 13 weeks of each half of the academic year. The first half begins with the first day of classes in January. The second half begins with the first day of classes in July. Following is a table of pro rata charges:

Start of the period through the end of 3rd week.....	10% charge
4th week through the end of the 7th week.....	50% charge
8th week through the end of the 13th week.....	75% charge
14th week.....	no refund

The effective date of withdrawal is determined by the Dean of Student Life. Students who believe circumstances warrant an exception from the published policy must appeal to Mr. Gerald Whittington, Vice President of Business and Finance, Alamance 113.

Unpaid charges owed by the student will be deducted from the calculated refund.

The acceptance deposit is nonrefundable.

Exception to the Institutional Policy

Medical withdrawals will be handled on a case-by-case basis.

Winter Term and Summer School*

Students who end enrollment during the second or third day of classes of winter term will receive a 90 percent refund of tuition and room charges. Students who end enrollment during the fourth or fifth day of classes of winter term will receive a 50 percent refund of tuition and room charges. Students who end enrollment during the sixth or seventh day will receive a 25 percent refund of tuition and room charges. There will be no refund after the seventh day of classes.

Students who end enrollment during the second or third day of classes in Summer I will receive a 90 percent refund of tuition and room charges. Students who end enrollment on the fourth, fifth or sixth day of Summer I will receive a 50 percent refund of tuition and room charges. Students who end enrollment on the seventh through tenth day of Summer I will receive a 25 percent refund of tuition and room charges. There will be no refund after the tenth day of classes.

Students who end enrollment on the second or third day of classes of Summer II will receive a 90 percent refund of tuition and room charges. Students who end enrollment on the fourth day of classes of Summer II will receive a 50 percent refund of tuition and room charges. Students who end enrollment on the fifth, sixth and seventh day of classes in Summer II will receive a 25 percent refund of tuition and room charges. There will be no refund after the seventh day of classes.

The refund policy for MBA and M.Ed. is listed in the catalog for those programs.

*Upon withdrawal, meal plan refunds are prorated.

Notice of Withdrawal

In order to be eligible for a refund upon withdrawal, a student must notify the Associate Dean of Student Life in writing of his/her intentions. The student must also check out with the financial planning and bursar's offices. Refunds are calculated as of the date of withdrawal specified by the Dean of Student Life.

Financial Aid

Elon University is committed to assisting eligible students in securing the necessary funds for a college education. To the extent possible, eligible students receive aid through careful planning and various forms of financial assistance.

In order to receive any type of university, state or federal aid, students must demonstrate satisfactory academic progress toward the completion of degree requirements. No financial aid is offered until an applicant has been accepted for admission to Elon University; however, prospective freshmen should not wait to be accepted before applying for aid.

Financial aid programs vary by source, eligibility criteria and application procedures. While every effort is made to meet each student's full need, that is not always possible, due to a limited amount of aid available. Students will be offered a financial aid "package" which is an award consisting of one or more of the following types of aid: scholarships, grants, low-interest loans and campus employment. Scholarships and grants are "gift assistance" which do not have to be repaid while loans and work are referred to as "self-help." Financial aid packages may consist of all self-help or a combination of self-help and gift assistance. Applying early for financial aid improves chances of receiving the maximum aid for which the student is eligible.

Financial Assistance Based on Need

There are a variety of need-based financial aid programs. The federal government, some states (including North Carolina) and the university itself offer grant, loan and work-study programs. Grants are funds which do not have to be repaid; loans to students are generally repayable only after the student is no longer enrolled; and work-study funds are earned through employment on campus. Many students use work-study funds to meet their personal financial needs during the school year.

All need-based financial aid is renewable up to four years provided the same level of need is demonstrated each year, the student maintains satisfactory academic progress as defined by the university for financial aid purposes and the funds remain available. Renewal cannot be assured to those students whose financial aid application files are completed after March 15 of any year.

Federal Programs

Federal Pell Grant

For students with a high need, Pell Grants provide from \$400 to \$4,050 annually.

Federal Supplemental Educational Opportunity Grants

Federal funds are given to and awarded by the university to students demonstrating high need. Amounts vary.

Federal Stafford Student Loans (Subsidized)

Moderate interest loans are awarded directly to students which are available through many state agencies and private lenders. Freshmen may borrow up to \$2,625 annually, sophomores up to \$3,500 annually and juniors and seniors up to \$5,500 annually. These loans are federally guaranteed, and no interest accrues, nor is any payment due until six months after the student ceases to be at least a half-time student. Separate application is required.

Federal Perkins Loans

If available, these federal funds are given to and awarded by the university to students demonstrating high need. No interest accrues, and no payment is due while the student is enrolled at least half-time. Repayment begins nine months after the student ceases to be at least a half-time student. Amounts vary.

Federal Work-Study

Awarded to students with need who work on campus and who are paid according to hours worked. Awards vary based on amount of need. Work-study earnings are not paid in advance, so they cannot be used to pay the direct costs (tuition, room, board, books, etc.) of the semester in which they are awarded.

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State Programs

North Carolina Contractual Scholarship Fund

State funds are given to and awarded by the university to North Carolina residents with need. Amounts vary.

North Carolina Student Incentive Grant

Awards of up to \$700 annually are given to North Carolina residents.

Pennsylvania, Vermont, Maryland and Rhode Island State Grants

Students who are residents of these states may receive these grants. Amounts vary.

Elon University Programs

In addition to the numerous federal and state programs, the university offers its own need-based assistance. Funds for these programs are provided directly by the university as well as through donations and gifts to the university by many individuals, businesses and foundations. All students who apply for need-based aid and who demonstrate need are automatically considered for these funds. No separate application is required.

The Leon and Lorraine Watson North Carolina Scholarship

Up to eight scholarship recipients will be chosen annually. To qualify for selection, students must be North Carolina residents who have attended for one or more year(s) and will graduate from a North Carolina high school and who have a strong record of academic achievement. Each annual award will include a \$5,000 Watson Scholarship and the North Carolina Legislative Tuition Grant, currently valued at \$1,800. Other scholarships and grants will vary according to financial need and academic achievement and may include state, federal and institutional funds. The goal will be to meet the full cost of tuition, fees, room and board or the student's full financial need, whichever is less. In addition, recipients receive a one-time grant of up to \$3,000 to fund a study abroad experience. A separate application is required and must be submitted by February 1 for the following academic year. For information, contact the Office of Admissions.

The John L. Georgeo Scholarship

The John L. Georgeo Scholarship awards two \$7,500 scholarships annually to incoming freshmen who have significant financial need and exhibit academic promise and exceptional involvement in those areas that most closely reflect the mission and values of an Elon University education. No separate application is necessary. Students who have demonstrated financial need will be automatically considered for this award and invited to interview with the selection committee. In addition to financial assistance, the John L. Georgeo Scholarship provides a one-time \$3,000 study abroad grant.

Institutional Grants

University grants are based solely on demonstrated need. Amounts vary in accordance with need.

Need-based Endowed Scholarships

Awarded to students who demonstrate need and who meet certain other criteria as established by the donors. The university identifies eligible students and awards these funds accordingly. No separate application is required.

Financial Assistance Not Based on Need

There is help available for students and families who do not qualify for need-based aid. This help is in the form of scholarships, grants, loans and work-study. Listed below are some of the opportunities available from Elon, state and federal governments and outside sources.

North Carolina Legislative Tuition Grant

Every North Carolina resident who attends Elon as a full-time undergraduate student automatically receives a Legislative Tuition Grant of approximately \$1,800 from the North Carolina General Assembly. The exact amount of the grant is set annually by the General Assembly. A brief application must be completed at registration to show legal residency.

UCC Ministerial Discount

\$2,000 per year (\$1,000 per semester) is awarded to full-time students who are legal dependents of full-time ministers in the United Church of Christ. Documentation of eligibility is required.

North Carolina Teaching Fellows

Elon is one of only two private colleges or universities in North Carolina selected to offer the prestigious North Carolina Teaching Fellows program. Fellows attending Elon receive a minimum annual funding of \$13,000 for four years plus airfare to London for one semester. The North Carolina Teaching Fellows Commission provides \$6,500, and an additional \$6,500 is guaranteed by Elon, including the North Carolina Legislative Tuition Grant. Fellows are selected by the Teaching Fellows Commission which provides its \$6,500 per year contribution on the condition that Fellows teach for four years in N.C. public schools after graduation. Elon admits 25 Teaching Fellows each year.

Presidential Scholarships

Presidential Scholarships of \$1,000–\$3,750 annually are awarded to approximately the top one-fourth of the entering freshmen each year. The awards are based on high school course selection, class rank and/or grades and SAT/ACT scores. No separate application is needed. Scholarships are automatically awarded to students who meet the necessary criteria when the completed admissions application is reviewed. All Presidential Scholarships are renewable for a total of four years pending acceptable academic performance.

Engineering Scholarships

Incoming freshmen who plan to major in Elon's dual-degree engineering program can compete for one of four \$3,000 engineering scholarships awarded annually. A special application is required and must be postmarked by January 10. Selection is based on academic performance, letters of recommendation and an interview. Engineering scholarships are renewable annually and are awarded in addition to any Presidential Scholarship award already received. Contact the Office of Admissions or Dr. Richard D'Amato, Director of Engineering Programs, for more information or an application. Applications are available online at www.elon.edu/admissions/engineering.aspx.

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Fellows Scholarships

Elon's Fellows programs offer exciting academic and personal growth opportunities beyond the scope of the usual college experience — opportunities like travel grants, special courses, guaranteed internships or paid research assistantships. In addition, each of the Fellows programs offers scholarships to selected incoming Fellows. To be considered for one of these scholarships, students must apply and be admitted to the Fellows program. The scholarships are renewable for a total of four years provided that all program requirements are met. A student may apply for more than one Fellows program but will only be admitted to one program. Fellows scholarships are awarded in addition to any Presidential Scholarship that has been received.

To receive more information and an application for the Fellows programs, contact the Office of Admissions or visit www.elon.edu/admissions. Applications must be postmarked by January 10. The admissions application must be submitted by the same date.

Honors Fellows Scholarships

Forty scholarships of \$6,000 annually are awarded to freshman Honors Fellows each year.

Each year one outstanding incoming Honors Fellow will be named the Kenan Honors Fellow and receive a scholarship award covering full tuition and standard fees. In addition, the Kenan Fellow will receive a one-time grant up to \$3,000 for a study abroad experience as well as funding for one Pre-Orientation experience sponsored by the Office of Student Life for the summer before the freshman year.

Elon College Fellows Scholarships

Thirty scholarships of \$3,000 annually are awarded to incoming Fellows each year. All Elon College Fellows must major in the arts or humanities, social sciences or natural, mathematical or computational sciences.

Jefferson-Pilot Business Fellows Scholarships

Five scholarships of \$3,000 annually are awarded to incoming Fellows each year. Jefferson-Pilot Business Fellows must major in either business administration, economics or accounting.

Journalism and Communications Fellows Scholarships

Five scholarships of \$3,000 annually are awarded to Fellows each year. Students must major in journalism or communications with an emphasis in either broadcast and new media, corporate or cinema.

Leadership Fellows Scholarships

Five scholarships of \$2,000 annually are awarded to freshman Leadership Fellows each year.

Fine Arts Scholarships

The Departments of Music and Performing Arts award scholarships to outstanding freshmen on the basis of audition. The scholarship amounts vary. Contact the Departments of Music and Performing Arts at 336-278-5600.

Athletic Scholarships

In compliance with NCAA Division I regulations, athletic scholarships are awarded by the Department of Intercollegiate Athletics in each sport offered at Elon. The awards are based on performance, and the amount varies. Contact the Athletics Department at 336-278-6800.

Reserve Officers Training Corps (ROTC)

Both the United States Army and Air Force offer four-year scholarships which cover the cost of tuition and books for four years, plus \$100 per month for personal expenses. Elon provides room and board at no cost to all four-year ROTC scholarship winners. Both the Army and Air Force also offer some two-year scholarships for which students in the Elon ROTC program may compete.

Private Scholarships

Foundations, service clubs, churches and corporations give away millions of dollars in scholarships each year to worthy students. Many Elon students receive this type of scholarship help in addition to other types of help they may be receiving.

Students generally seek these scholarships on their own. A good place to start is by asking your high school guidance office about community and other scholar-

ships with which they may be familiar. Then ask about the availability of scholarships at places where family members are employed, through your church and through any organizations to which family members belong. Finally go to the public library for guidebooks to scholarships from foundations, corporations and government agencies or search the World Wide Web for information on scholarship sources.

Campus Employment

Many Elon students pay for some of their university living expenses by working a part-time job, either on or off campus. The opportunities for campus employment at Elon are available both to students who qualify for need-based assistance and to students who do not.

Students in part-time jobs gain valuable experience, learn time-management skills, build friendships with the office personnel and, in certain cases with the approval of the Director of Experiential Education, receive internship credit.

Loan Options not Based on Need

Several sources of long-term loan funds are available that are based on credit worthiness rather than need.

Federal Parent Loan for Undergraduate Students (PLUS)

Parents may borrow up to the cost of education (at Elon, \$25,371 for tuition, fees, room and board and \$3,200 for books and miscellaneous expenses for 2005-06) less any other aid per academic year for each dependent enrolled at least half-time. The interest rate is variable and is based on the 91-day T-bill rate plus 3.10 percent with a cap of 9 percent. Repayment is not deferred during the student's period of enrollment.

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Federal Stafford Student Loans (unsubsidized)

This is available to all students regardless of need. Loan amounts are the same as for the need-based subsidized program. However, under this program, borrowers do not qualify for federal interest subsidy payments, thus interest accrues while the student is in school. Repayment of principal begins six months after the student is no longer enrolled half-time. The interest rate is variable, capped at 8.25 percent and is based on the 91-day T-bill rate plus 2.3 percent. Separate application is required. Note: Students must file an application for need-based financial aid to be considered for one of these loans. A determination must first be made that the student is not eligible for a need-based subsidized loan. (See "How to Apply for Need-Based Financial Aid.")

How to Apply for Financial Aid

Note: The filing dates listed below will help you meet our priority deadline of March 15. Applications will be accepted after these dates, but funding cannot be guaranteed.

- As soon after January 1 as possible, but before mid February, complete and submit a Free Application for Federal Student Aid (FAFSA). All students applying for any kind of federal or institutional financial aid (except PLUS loans) must file the FAFSA. Elon's federal Title IV School Code is 002927.

- If you wish to be considered for all aid programs (not just federal programs), register for the Financial Aid PROFILE service. You should register no later than January 15. CSS will send you a customized PROFILE application. You should complete and submit the application as soon after January 1 as possible, but no later than mid February. Elon's CSS Code is 5183. The CSS is filed only as a freshman unless there are extreme financial changes.
- Complete an Elon University 2005-2006 Financial Aid Application. This form may be submitted at any time but, like the forms listed above, it should be submitted before mid February.
- Certain applications may require that Elon University request additional information. Respond to these requests as soon as they are made.
- Notify Elon's Office of Financial Planning of any scholarships, grants, loans or other assistance you will be receiving from any source other than Elon University. Such notification is required by federal regulation as well as institutional policy and failure to do so may affect previously made financial aid offers.

Need-based Financial Aid Application Process for Continuing Students

Students must reapply for financial aid each academic year. Continuing students currently receiving financial aid will be sent a renewal financial aid packet sometime during late fall. The packet will contain those forms necessary to apply for aid for the following academic year. Specific instructions will be included as to how and when to complete the application process.

Payment Options

Online Payments

Students and parents may visit <https://ebill.elon.edu> and pay by credit card and/or check.

VISA/MasterCard/Discover

Elon University accepts these charge cards for payment of tuition and fees.

Ten-Month Payment Plan

Charges for the entire academic year, minus financial aid, are divided by 10 for monthly payments from June 1 through March 1. This plan is administered by Academic Management Services, 866-884-8466, www.TuitionPay.com.





Academic Programs, Degrees and Degree Requirements

Mission Statement

Rooted in the historic tradition of the United Church of Christ, Elon University embraces its founders' vision of an academic community that transforms mind, body and spirit, and encourages freedom of thought and liberty of conscience.

To fulfill this vision, Elon University acts upon these commitments:

- We nurture a rich intellectual community characterized by active student engagement with a faculty dedicated to excellent teaching and scholarly accomplishment.
- We provide a dynamic and challenging undergraduate curriculum grounded in the traditional liberal arts and sciences and complemented by distinctive professional and graduate programs.
- We integrate learning across the disciplines and put knowledge into practice, thus preparing students to be global citizens and informed leaders motivated by concern for the common good.
- We foster respect for human differences, passion for a life of learning, personal integrity and an ethic of work and service.

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Academic Message

An Elon student's highest purpose is **Academic Citizenship**: giving first attention to learning and reflection, developing intellectually, connecting knowledge and experiences and upholding Elon's honor codes.

Elon University Academic and Social Honor Codes

All students at Elon University pledge to abide by the Academic and Social Honor Codes which recognize self responsibility and responsibility to others as critical elements of upholding the values of the academic community. The current Student Handbook, <http://www.elon.edu/students/handbook>, presents sanctions and hearing procedures in detail.

Degrees and Degree Requirements

Bachelor of Arts (A.B.)

Art
 Ceramics
 Digital Art
 Painting
 Photography
 Biology
 Chemistry
 Chemistry/Chemical Engineering
 Communications
 Broadcast and New Media
 Corporate Communications
 Cinema
 Computer Information Systems
 Computer Science
 Computer Science/Engineering
 Dance
 Economics
 Education
 Elementary (K-6)
 Middle Grades (6-9)
 Secondary Licensure (9-12)
 Special Education/General
 Curriculum (K-12)
 English
 Creative Writing
 Literature
 Professional Writing and
 Rhetoric
 Environmental Studies
 French
 History
 Human Services
 Independent Major
 International Studies
 Journalism
 Mathematics
 Music
 Music Performance

Philosophy
 Physics
 Political Science
 Psychology
 Public Administration
 Religious Studies
 Science Education
 Sociology
 Spanish
 Theatre Studies
 Theatrical Design and Production

Bachelor of Fine Arts (B.F.A.)

Music Theatre
 Theatre Arts (Acting)

Bachelor of Science (B.S.)

Accounting
 Athletic Training
 Biology
 Business Administration
 Management
 Finance
 Marketing
 International Business
 Management Information Systems
 Chemistry
 Computer Information Systems
 Computer Science
 Engineering Mathematics
 Engineering Physics
 Environmental Studies
 Environmental Studies/Engineering
 Exercise/Sport Science
 Leisure and Sport Management
 Mathematics
 Medical Technology
 Music Education
 Physical Education
 Physics

Bachelor's Degree Requirements

Elon University offers an academic program consisting of a minimum of 132 semester hours of credit for the bachelor's degree. The degree consists of a major field of concentration in the liberal arts or in a professional or preprofessional area, a General Studies program and elective courses. To earn a baccalaureate degree the student completes the following academic program:

- 1. Satisfactory work in one major subject
- 2. Completion of General Studies as follows:
 - a. First-Year Core
 - (1) General Studies 110 The Global Experience4
 - (2) General Studies/English 1104
 - (3) General Studies/Mathematics (MTH 112, 121 or higher)4
(Excludes MTH 210)
 - (4) General Studies/HED 111 Contemporary Wellness Issues2
 - b. Experiential Learning (one unit)
 - c. Foreign Language (see page 36)0-8
 - d. Studies in the Arts and Sciences
Transfer students with at least 18 semester hours of transfer credit must complete 32 hours total in Studies in the Arts and Sciences, but may have as few as 7 hours in one or more of the four Studies in the Arts and Sciences areas.
 - (1) Expression8
Eight hours chosen from at least two of the following: literature (in English or foreign languages), philosophy and fine arts (art, dance, fine arts, music, music theatre and theatre arts). At least one course must be literature.
 - (2) Civilization8
Eight hours chosen from at least two of the following: history, foreign languages and religion.
 - (3) Society8
Eight hours chosen from at least two of the following: economics, geography, political science, psychology and sociology.
 - (4) Science/Analysis8
Eight hours chosen from one or more of the following: mathematics, computer science (must have the CSC department designation) and science. At least one course must be a physical or biological laboratory science.
 - e. Advanced Studies12
Eight hours of 300-400-level courses outside the major field chosen from departments and areas listed under Studies in the Arts and Sciences (8 sh)
One General Studies Interdisciplinary Seminar (4 sh)

3. Completion of elective courses to meet 132 credit hours
4. Satisfactory completion of a comprehensive evaluation in the major field of study
5. A minimum of 36 semester hours of junior/senior level work
6. Sixty or more semester hours of study at Elon, including the last term before graduation
7. Twice as many quality points as credit hours attempted must be earned
8. Participation in commencement exercises

Students must demonstrate competence in English and Mathematics or successfully complete English 100 and Mathematics 100 before beginning English 110 and the mathematics requirement in the First-Year Core.

Students who have not had two years of one foreign language in secondary school must make up this deficiency by taking a first-level 121 foreign language course. Courses taken to remove this deficiency will not satisfy the General Studies requirements. See page 36 for further details.

A maximum of 16 semester hours of internship/cooperative education credit may be applied to the 132 semester hours required for the A.B., B.S. and B.F.A. degrees.

Students must apply for graduation by the dates published by the Registrar.

A student may graduate under the provisions of the catalog published the year of first enrollment, provided the course of study is completed within five years. After the interval of five years, a student's credits will be subject to review by the Provost/Vice President for Academic Affairs.

Students who qualify for more than one major must select the primary major for which they will receive a bachelor's degree. No student will be awarded two degrees at commencement.

It is the student's responsibility to be familiar with the preceding requirements for graduation.

The Major

A minimum GPA of 2.0 in the requirements for the major is required for graduation. Bachelor of arts majors require 36-110 semester hours of credit. Bachelor of science or bachelor of fine arts majors require 40-95 semester hours of credit. The student may elect to complete more than one major. No later than the beginning of the junior year, each candidate for a bachelor's degree must select a major field. Requirements for each major are listed with the courses of instruction.

The Minor

A candidate for the bachelor's degree may elect a field (or fields) of minor concentration, consisting of 18-24 semester hours with a minimum GPA of 2.0.

Academic Programs

The academic program at Elon University prepares qualified students to enter graduate and professional schools or readies students to begin work in such fields as business, communications, teaching, public service and allied health. The bachelor's degree consists of a major field of concentration in the liberal arts or in a professional or preprofessional area, a general studies program and elective courses.

General Studies

Elon's General Studies program reflects the university's long history of strong liberal arts education in a distinctive and highly contemporary form. First-year students have the exceptional opportunity to begin their university careers in an intimate, seminar setting. The Global Experience course features a broad interdisciplinary investigation into many of the profound challenges facing the planet as we move into this new millennium. With classes individually designed by professors noted for their excellent teaching, each group gains a unique perspective on a set of issues under discussion campus-wide. As a result, the entire class of first-year students participates in an ongoing dialogue rich with diverse opinions, approaches and sources of information.

The Global Experience course models the most admirable qualities of university learning. Students are called upon to participate and converse daily in a seminar setting. Collaboration and cooperation are fostered by frequent activities and projects. Writing and critical thinking are refined, and the students develop a skill set that supports their future explorations in the university and beyond.

Developed with the support of the National Endowment for the Humanities, the advanced seminars at the junior and senior level are interdisciplinary in order to help students think about important issues that cross the boundaries of traditional disciplines.

Elon's General Studies program also embodies the university's focus on a holistic approach to education, linking theory to application through the experiential learning requirement. Through General Studies, Elon students encounter the best of the Elon faculty, are challenged to think in new and creative ways and bring focus to their education through experience.

The General Studies program consists of four elements:

First-Year Core

In these four courses, students: 1) sharpen their reading, communication, numerical and information retrieval skills, 2) deepen their appreciation for a diversity of ideas, 3) grow in their ability to think independently, 4) learn to appreciate the wholeness of their own mind, values and body, 5) build on the careful and creative thinking that will bring them into the world of scholarship, and 6) learn that leadership is a way of thinking as well as a set of skills.

Experiential Learning

The requirement encourages students to engage the world about them actively and to reflect insightfully about their experiences. Included in experiential learning are study abroad, internships/co-ops, service learning activities, undergraduate research programs, leadership activities and individualized learning.

Foreign Language Requirement

Students must meet a graduation requirement defined by one of the following: scoring 4 or 5 on a language Advanced Placement test, or scoring similarly on the IB Higher Level exam or CLEP exams; placing beyond FL 122 on the CAPE placement test or suitable alternative placement instrument; completing a 122-level language course; or completing a semester or summer in a university approved program in a non-English speaking country that includes a course in language instruction at the 122 level or above. Students may count only 4 s.h. of language study utilized to meet the graduation requirement in the Civilization category.

Studies in the Arts and Sciences

Elon students take courses from a variety of areas, learning facts and ideas from professors and disciplines outside their majors. As they complete their Studies in the Arts and Sciences requirement, Elon students learn that there are multiple ways to examine problems and differing strategies for the development of solutions.

Advanced Studies

Upper-level courses outside the major carry the broad Elon education past the introductory level. A required interdisciplinary seminar provides the capstone to the General Studies experience. Students work closely with a professor as they use intellectual skills to cross the borders between traditional academic disciplines.

The General Studies program assumes learning is cumulative and developmental. Elon University students will revisit the theme of a broad education from initial enrollment to graduation.

Elon 101

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Elon 101 is a specially designed academic advising course/program that introduces first-semester students to life at Elon University. Among the topics discussed are academic expectations and how to become involved in campus activities. An extended orientation to Elon, the course is co-taught by the students' academic advisors and student teaching assistants. This elective class is limited in size to 16 students. The course meets weekly during the first semester and offers one semester hour of general credit upon successful completion. Grades given in this course are "Satisfactory" or "Unsatisfactory."

Degrees and Major Fields of Concentration

Elon offers courses leading to the undergraduate degrees of Bachelor of Arts, Bachelor of Fine Arts and Bachelor of Science.

The Bachelor of Arts degree is awarded in the following fields: Art (Ceramics, Digital Art, Painting and Photography), Biology, Chemistry, Chemistry/Chemical Engineering, Communications (Broadcast and New Media, Corporate Communications and Cinema), Computer Information Systems, Computer Science, Computer Science/Engineering, Dance, Economics, Education (Elementary, Middle, Secondary — various subject areas, Special Education/General Curriculum), English (Creative Writing, Literature and Professional Writing and Rhetoric), Environmental Studies, French, History, Human Services, Independent Major, International Studies, Journalism, Mathematics, Music, Music

Performance, Philosophy, Physics, Political Science, Psychology, Public Administration, Religious Studies, Science Education, Sociology, Spanish, Theatre Studies and Theatrical Design and Production.

The Bachelor of Fine Arts degree is awarded in Music Theatre and Theatre Arts (acting emphasis).

The Bachelor of Science degree is awarded in the following fields: Accounting, Athletic Training, Biology, Business Administration (concentrations in Management, Finance, Marketing, International Business and Management Information Systems), Chemistry, Computer Information Systems, Computer Science, Engineering Mathematics, Engineering Physics, Environmental Studies, Environmental Studies/Engineering, Exercise/Sport Science, Leisure and Sport Management, Mathematics, Medical Technology, Music Education, Physical Education and Physics.

Professional Programs

Elon University offers professional programs in Accounting, Business Administration, Communications, Computer Science, Education, Engineering, Human Services, Journalism, Music, Public Administration and Medical Technology. These programs prepare graduates to enter beginning-level professional positions. Qualified graduates may wish to continue their studies in graduate school.

Preprofessional Programs

Elon University offers programs that prepare students for professional studies in such fields as dentistry, engineering, law, medicine, physical therapy and theology. Students entering any preprofessional program should plan carefully, using the catalog of the professional school they wish to enter as a specific guide to choosing courses at Elon University. In addition to the preparation students receive through the regular academic curriculum, Elon offers a preprofessional advising program that emphasizes careful academic advising, special programs and workshops, and assistance in the graduate application process. Faculty advisors are available to assist students in this planning.

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Minor Fields of Concentration

Candidates for the bachelor's degree may elect a minor concentration consisting of at least 20 semester hours.

The following minor fields are available: Accounting, African/African-American Studies, Anthropology, Art, Art History, Asian/Pacific Studies, Biology, Business Administration, Chemistry, Cinema, Classical Studies, Communications, Computer Information Systems, Computer Science, Criminal Justice, Dance, Economics, English, Exercise/Sport Science, French, Geography, Geographic Informations Systems, History, Human Services, International Studies, Jazz Studies, Latin American Studies, Leisure and Sport Management, Mathematics, Multimedia Authoring, Music, Non-Violence Studies, Philosophy, Physical Education, Physics, Political Science, Professional Writing Studies, Psychology, Public Administration, Religious Studies, Sociology, Spanish, Theatre Arts and Women's Studies/Gender Studies.

Enrichment Programs

Leadership Development

Special courses, service projects, organizational leadership and internships help students develop the characteristics that identify a leader in any field: strong character, good communication skills, self-confidence, the ability to make decisions and motivate others, solve problems and take risks. Leadership development programs are described more fully in the Student Life section of Elon's Web page.

Service-Learning

Academic Service-Learning gives students the opportunity to link knowledge and skills learned in the classroom with the world around them. Through Academic Service-Learning courses, students develop a deeper understanding of disciplinary knowledge as they engage in academic coursework and relevant community-based projects guided by the expertise of faculty members and community-based practitioners. Students engage in structured reflection and complete academic assignments that enhance their understanding of the connections between course content and service. Academic Service-Learning has numerous demonstrated benefits for students including increased mastery of course content, improved critical thinking and problem-solving skills, increased understanding of social responsibility and enhanced self-awareness and personal growth. Some Academic Service-Learning courses fulfill the Experiential Learning Requirement.

The Kernodle Center for Service-Learning and Elon Volunteers! (the umbrella organization that coordinates and facilitates service experiences for students), combine volunteer service with education about social issues. Students may complete the ELR through one of Kernodle's volunteer service programs when they are linked with appropriate reflection and academic assessment.

Internship and Co-op Opportunities

Through internships and co-op opportunities, Elon helps students apply classroom knowledge, understand the value of productive work, develop the knowledge and skills to compete and progress in a meaningful job. The Elon Career Center assists students in the preparation and planning of careers and provides the resources and support needed for successful employment and career advancement after graduation. More than 78 percent of 2004 Elon graduates participated in internships and co-ops. (Additional information on page 41.)

Study Abroad

Study abroad programs through the Isabella Cannon Centre for International Studies enhance the academic program and give students an opportunity to learn firsthand from other countries and cultures. Approximately 63 percent of the 2005 Elon graduates participated in study abroad activities. The university offers a variety of such opportunities.

Students may elect to spend a semester, either fall or spring, abroad in one of Elon's more than two dozen approved programs. Each one offers a wide range of classes that will apply either towards General Studies or major requirements. In some locations, internships, research projects and volunteer service are possible. Fall

and spring breaks allow further exploration of neighboring countries. Semesters in Chile, Ecuador, Argentina, Costa Rica, Japan, France and Spain may require a specific level of language proficiency. Semester study in Sweden, Denmark, Germany and China allow for language study but classes are taught in English. Other semester opportunities include England (London or University of Sussex), Scotland (St. Andrews), Africa (University of Ghana), Italy, the Caribbean, Australia and Korea.

During the winter term, the university offers a wide range of study opportunities abroad. Although the courses vary from year to year, Elon students for the past few years have chosen from a range of courses in the London program; studied economics in eastern European countries; literature in Ireland; fine arts in Italy; the European Union and the history of World War II in Western Europe; language and culture in Costa Rica; culture and history in Ghana; biology in Belize; and Aboriginal communities in Australia to name only a few. New courses are added each year reflecting student and faculty interests.

Students enrolled in all study abroad programs are required to attend orientation sessions prior to departure. These orientations focus on academic, cultural and safety issues necessary for a successful study abroad experience. Students are not allowed to take a study abroad course as Pass/Fail.

All students enrolled in an Elon approved study abroad course or program must purchase the study abroad health and accident insurance that covers medical evacuation and repatriation. This requirement applies as well to students doing independent research or study, internship/co-op and any other independently arranged academic activity outside the United States for which they are registered to receive academic credit from Elon University.

Undergraduate Research

Undergraduate research is an integral component of the Elon experience. Mentored by a faculty member, student researchers engage in the exploration of new ideas and seek to further the knowledge in their chosen disciplines. As researchers, they enhance their disciplinary skills, gain confidence as emerging scholars and often develop contacts within the disciplinary network. Many undergraduate research projects lead to dissemination in the form of public presentations ranging from Elon's Student Undergraduate Research Forum (SURF) to regional and national conferences. It also is possible for students, as a result of their research, to be coauthors on peer-reviewed scholarly publications. Whether a student intends to transition immediately into the workforce after graduation or plans to pursue post-graduate studies, participating in undergraduate research will enhance his/her chances for ultimate success.

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Independent Study

Students may undertake independent study to explore special subject matter that is not available through catalogued courses. To receive credit for independent study, a student will work with a faculty member with the requisite expertise.

Military

ROTC

The Reserves Officers Training Corps program offers a military science curriculum leading to commission in the U.S. Army upon graduation. This course offers built-in financial assistance and special scholarship programs. In cooperation with North Carolina A&T State University, an option for Air Force ROTC is available.

Credit for Veterans

This program offers military personnel on active duty the opportunity to submit CLEP credit by contacting their Education Officers or USAFI in Madison, Wisconsin, for testing. Credit for work completed may be transferred to other accredited postsecondary institutions and service experience is accepted for physical education requirements.

Academic Support Services

Elon University seeks to meet the individual academic needs of all students. In order to accomplish this, the university places emphasis on a variety of academic support services.

Academic Advising Center

Students are assigned faculty advisors before they enter Elon University. An important part of the Academic Advising Center's service is Elon 101, a freshman advising course. Freshmen not enrolling in Elon 101 are assigned advisors based on whether or not they have expressed an interest in a major. Students without clear career goals may be counseled in selecting a major and are assigned advisors within the major departments. Special advising assistance is also available for students in preprofessional programs such as prelaw, premedicine and pre-engineering. Transfer students are assigned an academic advisor in the department of their majors at the time they enter.

Career Center

The Career Center offers services and programs to support students and alumni in the lifelong process of defining career goals, learning the skills to attain them and developing employment opportunities. Internships, co-ops and individualized learning are coordinated through the Career Center, where students can find assistance in identifying opportunities related to their major and career interests.

Career assistance is provided through testing and advising to identify abilities, interests and values related to career choices, developing a career plan and finding available job or graduate school options. Center staff also offer individual appointments, workshops and programs that help students develop the skills required for a successful search. Designing effective resumes and job search letters, learning the art of networking, conducting a comprehensive job search and preparing for interviews are examples of skill sets that students can develop at the Career Center.

Disability Services

Although Elon has no formal program for students with disabilities, the university does attempt to make reasonable classroom accommodations for students

who provide formal documentation from a licensed/certified doctor, psychologist or learning specialist. The documentation should be dated within four years of the student's enrollment at Elon, should explain the limitations resulting from the disability and include specific accommodations needed. Students who wish to discuss their disabilities and appropriate accommodation should contact Priscilla Lipe, Disability Services Coordinator, in the Academic Advising Center in Duke 108. The Elon University disabilities policies and procedures may be seen on line at www.elon.edu/advising. Copies of the Elon University disabilities policy and procedures are also available in Duke 108. Dr. Smith Jackson, located in Alamance 109, is the Section 504 Coordinator.

Peer Tutoring

Peer tutoring is offered to all students, covering most subject areas, through Tutorial Services. Walk-in tutoring is held in Belk Library, Sunday through Thursday evenings. By-appointment tutoring is also available. The walk-in tutor schedule and the by-appointment tutor list are located at www.elon.edu/tutoring. No additional fee is required. The tutoring Web site also offers links to internet sites containing useful study guides and study skills building information as well as study skills inventories.

Internships or Co-ops

Elon University strongly supports programs that allow students to relate their classroom learning to work experience. Active cooperative education and internship programs provide opportunities throughout the academic year and during summers for students to explore careers, to integrate theory with practice and to examine future job possibilities. In each learning experience, the student's academic or career-related work assignment is supervised and evaluated by Elon faculty. Internships are directly related to majors or minors, may be full or part time and paid or unpaid. Most departments offer internship credits. Co-ops usually offer pay, are full or part time, may be repeated and count toward elective credit. The class COE 310, *Securing a Job*, is recommended for co-op students.

Eligibility Requirements: Students must be a junior or senior (sophomore for co-op), have a 2.0 minimum GPA, have completed departmental prerequisites and have approval from the Faculty Sponsor/Experiential Education Director.

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The Elon Experiences Transcript

The Elon Experiences Transcript provides a cocurricular transcript that enhances job and graduate school opportunities. This transcript will document study abroad, service, leadership, internships/co-ops and undergraduate research throughout the student's university career. Elon Experiences help develop informed, productive, responsible and caring citizens — individuals equipped with an education that enriches personal lives and enhances professional careers.



General Academic Regulations

Registration and Courses

Student Academic Classification

Classifications are made at the beginning of the university year in August.

- | | |
|-------------|-------------------------------------|
| • Freshman | 1-29 semester hours completed |
| • Sophomore | 30-61 semester hours completed |
| • Junior | 62-95 semester hours completed |
| • Senior | 96 or more semester hours completed |

Course Load

Sixteen hours of university work per semester is considered the normal student load. Students who are on academic probation are limited to a maximum load of 12 semester hours in fall and spring semesters.

During the one-month winter term, four hours of university work is the normal load for all students.

Maximum load for any one semester is as follows:

- Fall and Spring Semesters, 18 semester hours
- Winter Term, 4 semester hours
- Summer Term, 8 semester hours

Any exception to this policy is the responsibility of the Assistant to the Provost, located in Alamance 102.

Course Registration

Students are expected to register for themselves on the designated days in August, January and February. Registration information is available to all students. Registration includes academic advising, selection of courses and payment of fees. Before preregistration or registration, each student should consult with his/her academic advisor on course selection, General Studies requirements, major requirements and other degree requirements. However, it is the responsibility of the student, not the academic advisor, to ensure that all university graduation requirements are met.

Registration is for an entire course, and a student who begins a course must complete it except in unusual circumstances. Unless the student and his/her advisor consider it essential, a student should not change his/her schedule after registration.

Auditing Courses

Persons wishing to attend certain courses regularly without doing the assigned preparation or receiving credit may do so with the approval of the Registrar. The cost is \$200 for each course.

Changes in Class and Schedule

The university reserves the right to cancel or discontinue any course because of low enrollment or for other reasons deemed necessary. In order to assure quality instruction, the university reserves the right to close registration when the maximum enrollment has been reached. The university reserves the right to make changes in schedule and/or faculty when necessary.

Credit by Examination (Course Challenge)

A student may receive credit for a course not taken by demonstrating mastery of its subject matter. To challenge a course, a student must have the approval of the appropriate academic dean, the chair of the department in which the course is offered and the professor who will test the student's mastery of the subject matter. Whenever possible, the student should consult the professor far enough in advance of the term in which the examination will be taken to determine course requirements and standards and to begin to make independent preparations. However, the student should expect no assistance from the professor other than being informed of the material to be covered on the examination. Under no circumstances shall a student be allowed to attend classes of the course being challenged. The cost for each examination is \$588.

Dropping Courses

A student may officially drop any class with a "W" (withdraw without penalty) through half of the term. (A "term" includes the examination period.) The withdrawal period applies to the regular semesters, classes taught for one half-semester, winter term and the summer sessions. After that date no class may be dropped. Any exception to this policy is the responsibility of the appropriate Academic Dean's office.

A student who withdraws from the university, for any reason (except for a medical reason), receives grades of "W" if the withdrawal is before the designated half-term time period. After this time a student will receive a "W" or "F" depending on his/her grades at the time of withdrawal. A student who withdraws from the university with a medical withdrawal will receive a "WD."

Independent Study

Students may engage in independent study of catalog courses and special topics. Independent Study is limited to Elon's honors students, juniors and seniors except by special permission. A course may not be repeated by Independent Study. Details concerning the procedure for developing an Independent Study proposal may be obtained in the Registrar's Office.

Undergraduate Research

Undergraduate Research is an effort to discover something new, or to look at something from a new perspective. Students may earn academic credit for research undertaken with a faculty mentor. Research projects must include a review of the relevant research literature, research design and significant participation in the actual conduct of the research, including analysis and interpretation. A written report is considered essential, a copy of which should be made available in the department office. Undergraduate research credit can be obtained by registering for a course numbered 499 and is limited to students with sophomore, junior or senior standing and a minimum GPA of 2.5. A limit of 8 credit hours of undergraduate research can be applied toward graduation.

Overload

A student whose cumulative GPA is less than 3.0 may not register for overload hours in any term. See page 43 on course load.

Pass/Fail Elective Courses

A student may take two one-semester courses outside the major, minor and General Studies requirements on a pass/fail basis. Study abroad courses may not be taken on a pass/fail basis. The pass/fail option encourages students to enrich their educational experience in subjects outside their major/minor fields and General Studies requirements in which they may feel unable to maintain a desirable GPA. The decision to take a course pass/fail must be made at registration before the first class period.

Repeat Courses

Courses repeated within four semesters of attendance (excluding winter and summer sessions) following the first enrollment in the course count only once in computing the cumulative GPA. In such cases, the most recent grade is counted rather than any previous grade(s) received. However, a course repeated more than once will count in the cumulative GPA each time it is repeated. A course in which an "F" was received due to a violation of the Academic Honor Code may be repeated; however, the original grade will count in the cumulative GPA. (Students receiving Veterans' benefits should consult the VA representative.)

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Attendance

Since students must attend classes regularly in order to derive maximum benefit from their courses, the university strictly and fairly enforces policies governing classes, and students are responsible for knowing attendance regulations. Each department establishes its own attendance policy. If unwarranted absences occur, the Provost/Vice President for Academic Affairs may suspend the student from the class or from the university.

Absence From Tests and Examinations

Students who miss scheduled tests and examinations without excusable reasons may not make up such assignments. Authorization to make up tests missed for excusable reasons is obtained from the professor of the class. Final exam scheduled dates and times should not be changed for individual students or classes without prior approval from the appropriate department chair. Permission to make up

missed exams must be secured from the department chair. This permission is ordinarily not given except on the basis of a medical statement.

Grades and Reports

Grading System and Quality Points

Graduation is dependent upon quality as well as upon quantity of work done.

A student earns quality points as well as semester hours if his/her level of performance does not fall below that of a "D-."

Letter grades are used. They are interpreted in the table below, with the quality points for each hour of credit shown at right.

Grade	Quality Points
A	4.0
A-	3.7
B+	3.3
B	3.0
B-	2.7
C+	2.3
C	2.0
C-	1.7
D+	1.3
D	1.0
D-	0.7
F	0.0
I Incomplete	0.0
P Passing (not counted in cumulative average)	0.0
S Satisfactory (not counted in cumulative average)	0.0
U Unsatisfactory (counted in cumulative average)	0.0
WD Medical withdrawal	0.0
W Withdrawal	0.0
NR No Report	0.0

A grade in the "A" range indicates distinguished performance in a course.

A grade in the "B" range indicates an above-average performance in class.

A grade in the "C" range indicates an average performance in which a basic understanding of the subject has been demonstrated.

A grade in the “D” range indicates a passing performance despite some deficiencies.

A grade of “F” indicates failure.

Grades of “A” through “F” are permanent grades and may not be changed except in case of error. After an instructor has certified a grade to the Registrar, he/she may change it before the end of the next regular grading period. The change must be made in writing and have the written approval of the department chair.

An “I” grade signifies incomplete work because of illness, emergency, extreme hardship or self-paced courses. An “I” grade is normally not given when a student has missed more than 30 percent of the class work. It is not given for a student missing the final examination unless excused by the appropriate department chair upon communication from the student. The student receiving a grade of “I” completes all work no later than nine class days after mid-semester grades are due during the following semester. A final grade is submitted to the Registrar by the instructor the following Monday. After this date the “I” grade automatically changes to “F” unless an extension is granted by the Provost/Vice President for Academic Affairs.

Grade Point Average (GPA)

The GPA is computed by dividing the total quality points on work attempted at Elon University by the number of hours attempted except for courses with grades of “P,” “S,” “WD” or “W.”

Grade Reports

Students are graded at mid-semester as well as at the end of each semester. Mid-semester grades serve as progress reports and are not entered on students’ permanent records.

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President’s and Dean’s Lists

The Dean’s List recognizes and encourages excellence in academic work. A student who has no grade below a “B-” and a GPA of at least 3.4 in a minimum of 12 semester hours in any semester is placed on the Dean’s List for the following semester. Those students who have no grade below an “A-” in a minimum of 12 semester hours in any semester are placed on the President’s List. Classes passed on a Pass/Fail basis or classes with grades of “S,” “WD” or “W” are not included in Dean’s List or President’s List eligibility.

Graduation With Honors

Students completing at least 66 credit hours at Elon University may graduate with honors. Candidates for graduation with an average of 3.9 or above are graduated summa cum laude; those with 3.7 or above, magna cum laude; and those with 3.5 or above, cum laude. In computing eligibility for honors, only work attempted at Elon University will be used.

Access to Student Educational Records

Elon University complies with the Family Educational Rights and Privacy Act of 1974. This Act protects the privacy of educational records, establishes the right

of students to inspect and review their educational records and provides guidelines for the correction of inaccurate or misleading data through informal and formal hearings. Students also have the right to file complaints with the Family Educational Rights and Privacy Act Office (FERPA) concerning alleged failures by the institution to comply with the Act.

Questions concerning the Family Educational Rights and Privacy Act may be referred to the Office of the Registrar.

Transcripts of Student Records

Requests for copies of a student's record should be made to the Office of the Registrar. All transcripts reflect the student's complete academic record. No transcripts are issued without the written authorization of the student. No transcript is issued for a student who has a financial obligation to the university.

Work at Other Institutions

Students who plan to take courses at other institutions must have the prior written permission of the Registrar. Currently enrolled students must have a minimum 2.0 GPA in order to transfer course credit from another institution to Elon University. After completion of such courses, the student presents an official transcript of his/her record to the Registrar.

Academic Standards and Withdrawal

Academic Standing

Academic standing is determined by the earned GPA for any one semester of attendance and for cumulative work. A student whose cumulative GPA falls below 2.0 is reviewed by the Academic Standing Committee and placed on academic probation or academic suspension.

Probation

Students who are put on probation are notified that their GPA is below 2.0, that they are limited to a maximum load of 12 semester hours and that three consecutive semesters on probation will result in suspension.

Suspension

Students who are suspended are separated from Elon University, and one academic semester must elapse before they are eligible for readmission. While suspended, students may not take classes at other institutions and transfer them to Elon University.

In order to continue at the university, a student must earn a minimum GPA each semester of 1.0. In addition, at the end of spring semester the student must have:

- Freshman: 1-29 semester hours completed, 1.70 GPA
- Sophomore: 30-61 semester hours completed, 1.80 GPA
- Junior: 62-95 semester hours completed, 1.90 GPA
- Senior: 96 semester hours completed, 2.0 GPA

A student who is suspended and is readmitted in a subsequent term must have a minimum GPA each term or semester of 2.3 (C+) until the student's cumulative GPA is 2.0 or higher. Failure to do so will result in a second and final suspension.

Any student failing to meet these guidelines will be academically ineligible for the next semester and suspended from the university. During the suspension period which includes fall or spring semester, the student may apply for readmission and, if readmitted, will be placed on academic probation. A student who is suspended a second time for academic reasons is normally not readmitted to the university.

Dismissal

The university reserves the right to suspend or dismiss any student(s) when it believes that such action is in the best interest of the institution and/or the student(s). This action will take place only after careful consideration with the student(s) in question and all other parties with information pertinent to the matter at hand.

Withdrawal

If for any reason a student concludes that he/she must leave the university on a temporary or long-term basis, he/she must confer with the Office of Student Life to formalize plans. Faculty will be requested to report student progress in class at the time of withdrawal by indicating either a "W" or "F" grade. A student withdrawing with medical reasons will receive grades of "WD." The official record of the student cannot be cleared until the withdrawal is complete.



Courses

Courses numbered 100–199 are freshmen level, 200–299 are sophomore level and 300 and above are junior/senior level.

Accounting and Finance

The Martha and Spencer Love School of Business mission statement.

To provide instruction and experiences for our students so they graduate with the knowledge, skills and character essential for responsible business leadership in the 21st century.

Chair: Professor Cassill

Professor: Synn

Associate Professors: McGregor, Pavlik, Poulson

Assistant Professors: Cox, Meredith

Instructor: Cardwell

Accounting involves measuring business activities and communicating this information to investors, creditors and other decision makers who use it to make sound, informed financial decisions. This practice serves to encourage investment activity, which in turn, creates jobs and helps the economy to grow.

Elon's program leading to the B.S. in accounting includes the central topics of financial and managerial accounting plus an introduction to taxation, auditing and commercial law. The accounting program prepares the graduate to be a professional accountant in business, government, nonprofit and other organizations. This degree can also serve as a basis for graduate study in accounting and other fields, including business administration and law.

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Students wishing to obtain certification as a CPA and practice in the field of public accounting must have 150 hours of college credit that includes at least 30 semester hours of Accounting.

Accounting Majors: At least 50% of the accounting credit hours required for the degree (B.S. in Accounting) must be earned at Elon University.

A major in Accounting requires the following courses:

Choose one from the Studies of Arts and Sciences above and beyond the general studies requirements set by the University	4 sh
MTH 112 General Statistics	4 sh
MTH 116 Applied Mathematics with Calculus	4 sh or
MTH 121 Calculus and Analytic Geometry I	
CIS 211 Management Information Systems	4 sh
ECO 201 Principles of Economics	4 sh
ECO 203 Statistics for Decision Making	4 sh
BUS 221 Legal Environment of Business	2 sh

BUS 202	Business Communications	4 sh
BUS 311	Principles of Marketing	4 sh
BUS 323	Principles of Management	4 sh
FIN 343	Principles of Finance	4 sh
BUS 465	Business Policy	4 sh
ACC 201	Principles of Financial Accounting	4 sh
ACC 212	Principles of Managerial Accounting	4 sh
ACC 331	Intermediate Accounting I	4 sh
ACC 332	Intermediate Accounting II	4 sh
ACC 336	Cost Accounting	4 sh
ACC 341	Fundamentals of Income Taxation	4 sh
ACC 456	Auditing	4 sh

TOTAL		74 sh
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Additional accounting courses that may be taken as electives include:

ACC 365	Computerized Accounting (Winter Term)	4 sh
BUS 418	Commercial Law	4 sh
ACC 442	Advanced Taxation	4 sh
ACC 451	Advanced Financial Accounting	4 sh
ACC 471	Seminar: Special Topics	4 sh
ACC 481	Internship in Accounting	1-8 sh
ACC 491	Independent Study	1-4 sh
ACC 499	Independent Research in Accounting	1-4 sh

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A minor in Accounting requires the following courses:

ACC 201	Principles of Financial Accounting	4 sh
ACC 212	Principles of Managerial Accounting	4 sh
FIN 343	Principles of Finance (prerequisites ECO 201 and ECO 203)	4 sh

Select two electives from the following list: 8 sh

ACC 331	Intermediate Accounting I
ACC 332	Intermediate Accounting II
ACC 336	Cost Accounting
ACC 341	Fundamentals of Income Taxation
ACC 365	Computerized Accounting (Winter Term)
ACC 471	Seminar: Special Topics

TOTAL		20 sh
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Accounting Courses

ACC 201. PRINCIPLES OF FINANCIAL ACCOUNTING

4 sh

In this introduction to the financial reporting process, study emphasizes the accrual basis of accounting. Students learn to prepare and interpret income statements and balance sheets, analyze business transactions and determine the effects of transactions on assets and equities. Offered fall and spring.

ACC 212. PRINCIPLES OF MANAGERIAL ACCOUNTING **4 sh**

Students gain an overview of the ways accounting information helps managers as they plan, develop control procedures and make decisions for their organizations. The course also covers the concepts of cost behavior, cost-volume-profit analysis and the preparation of budgets. Prerequisite: ACC 201. Offered fall and spring.

ACC 331. INTERMEDIATE ACCOUNTING I **4 sh**

Intermediate Accounting begins an in-depth study of generally accepted accounting principles and their theoretical basis. Students explore the contents of and interrelationships among the balance sheet, income statement and statement of cash flows, along with techniques for analyzing and correcting errors. Some of the more important accounting standards of the Financial Accounting Standards Board are included. Prerequisites: ACC 201 and 212. Offered fall and spring.

ACC 332. INTERMEDIATE ACCOUNTING II **4 sh**

This continuation of the in-depth study of financial accounting (begun in ACC 331) emphasizes intangible assets, acquisition of property, current and long-term liabilities and stockholders' equity. Prerequisite: ACC 331. Offered fall and spring.

ACC 336. COST ACCOUNTING **4 sh**

In cost accounting, students examine methods for gathering and analyzing production cost data, which managers use to plan, budget and set prices for their products, with emphasis on the job order costing, process costing and standard costing methods and the interpretation of data produced by each system. Prerequisites: ACC 201 and 212. Offered fall and spring.

ACC 341. FUNDAMENTALS OF INCOME TAXATION **4 sh**

This introduction to the structure of the federal income tax system emphasizes the theories, procedures and rationale associated with the taxation of individuals. Prerequisite: ACC 201. Offered fall and spring.

ACC 365. COMPUTERIZED FINANCIAL ACCOUNTING **4 sh**

In this interesting and practical course, students will assume the role of owner of a simulated small business. Up-to-date accounting software will be used to keep the financial records. This hands-on experience will enhance the understanding of accounting and its essential role in the business world and, at the same time, provide a practical instruction in the use of modern Windows-based accounting software. Prerequisite: ACC 201. Offered winter.

ACC 442. ADVANCED TAXATION **4 sh**

This course continues the study of special topics including corporations, capital gains and losses, estate and gift taxation, tax administration and tax research. Students will learn to locate relevant information in regulations, revenue rulings and court cases. They will report their findings in the form of written reports and memoranda. Prerequisite: ACC 341.

ACC 451. ADVANCED FINANCIAL ACCOUNTING **4 sh**

Continuing the in-depth study of financial accounting that began in Intermediate Accounting, this course includes accounting for business combinations, with special emphasis on preparing consolidated financial statements for parent and subsidiary corporations. Accounting for governmental units and other not-for-profit organizations is also introduced. Prerequisites: ACC 331 and 332, or ACC 331 and concurrent enrollment in ACC 332.

ACC 456. AUDITING **4 sh**

Study of auditing covers both theory and practice, including ethics, generally accepted auditing standards, internal accounting controls, auditors' working papers, the components of audit risk, compliance testing and substantive testing. Prerequisite: ACC 331. Offered spring.

ACC 471. SEMINAR: SPECIAL TOPICS

1-4 sh

This upper-level seminar, an advanced study requiring active participation by students, consists of readings, problems, reports, discussions of current topics or preparation for professional examinations. May be conducted by departmental faculty or other resource persons. Prerequisite: permission of instructor, may vary with topic.

ACC 481. INTERNSHIP IN ACCOUNTING

1-8 sh

An internship offers the student valuable experience in the field of accounting. Appropriate placement must be arranged by the student with the help and support of the faculty and other appropriate resources.

ACC 491. INDEPENDENT STUDY

1-4 sh

ACC 499. RESEARCH

1-4 sh

Students can engage in an undergraduate research study in collaboration with a faculty sponsor.

Finance Courses

FIN 303. INTRODUCTION TO FINANCE

4 sh

For nonmajors and business administration minors, this introductory course offers a balanced, survey approach to the three major areas of finance — investments, financial markets and corporate or business finance. It is designed to provide students a foundation with regard to the key concepts from each of these areas so that they will better understand the functions of the financial system and the role it has in their lives. Sophomore standing required. No credit for both FIN 343 and FIN 303. Offered fall and spring.

FIN 343. PRINCIPLES OF FINANCE

4 sh

This course provides an introduction to the fundamental concepts and techniques of finance and might be subtitled “what every business major needs to know about finance.” It is designed to provide students a foundation with regard to the key concepts from each of three major areas of finance — investments, financial markets and corporate or managerial finance. In the class, we will discuss issues relating to the financial markets, the time value of money, financing, valuation, investments and other topics. Prerequisites: ACC 201, 212, ECO 201 and 203. Offered fall and spring.

FIN 413. ADVANCED MANAGERIAL FINANCE

4 sh

The in-depth study of financial management from the perspective of valuate theory involves discussions of topics such as security evaluation and capital budgeting within the framework of the Capital Asset Pricing Model. Study relates cost of capital, capital structure and leverage to valuation concepts. Examination of long-term financing includes studies of leasing as well as warrants, convertibles and options. Valuation impacts of mergers and reorganizations are also covered. Prerequisite: FIN 343.

FIN 416. FUNDAMENTALS OF INSURANCE

4 sh

This course provides a study of the basic principles of insurance contracts and the scope of coverage under the several divisions of insurance, including life, fire, casualty, marine, bond and automobile insurance. Prerequisite: FIN 343.

FIN 419. FINANCIAL SERVICES

4 sh

This course is designed to introduce students to the U.S. financial services sector and to show how the industries within the sector relate to the financial planning process. Broad topics include retirement and estate planning and the functions of the banking, insurance and mutual fund industries. Under each of the broader topics, many of the products and services offered by the industries will be discussed and linked to the financial planning process. The prerequisite for the course is FIN 343. Offered spring.

FIN 421. INVESTMENT PRINCIPLES**4 sh**

This course provides an introduction to the basic concepts of investments and investment management. It is designed to develop a framework within which to view the investment process and an understanding of the institutional setting in which investment decisions are made. Topics covered include financial markets, risk and return analysis, fundamental and technical analysis, derivatives and asset allocation. Finally, global, ethical, legal, regulatory and financial planning issues will be discussed throughout the course. Prerequisites: FIN 343. Offered fall.

FIN 445. SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT**4 sh**

This course teaches the application of tools and techniques for appraising the economy, specific industries and companies, emphasizing securities markets from the perspectives of institutional portfolio managers or personal investors. Prerequisite: FIN 343.

FIN 471. SEMINAR: SPECIAL TOPICS**1-4 sh**

This upper-level seminar, an advanced study requiring active participation by students, consists of readings, problems, reports, discussions of current topics or preparation for professional examinations. May be conducted by departmental faculty or other resource persons. Prerequisite: permission of instructor, may vary with topic.

FIN 481. INTERNSHIP IN FINANCE**1-8 sh**

An internship offers the student valuable experience in the field of finance. Appropriate placement must be arranged by the student with the aid and support of the faculty and other appropriate resources.

African/African-American Studies

Coordinator: Professor Digre

African/African-American Studies takes an interdisciplinary approach to study two cultures and connect the past with the present. The program, developed in 1994, allows the student to select from a current group of courses approved by an advisory group. Through connected study, the student not only takes a fresh approach to learning, but also develops an individualized study plan.

This program is highly recommended for those persons in education and programs leading to multicultural relations. The minor consists of a minimum of 20 credit hours including a capstone course.

A minor in African/African-American Studies requires the following:

Twenty semester hours selected from the following:

ART 341	African Art	4 sh
ENG 238	African-American Literature before 1945	4 sh
ENG 239	African-American Literature since 1945	4 sh
ENG 338	The African Experience in Literature	4 sh
ENG 359	African-American Novels	4 sh
GEO 320	Geography of Africa	4 sh
HST 313	Modern Africa	4 sh
HST 314	History of Southern Africa	4 sh
HST 363	African-American History, 1850-Present	4 sh
POL 367	Politics of Africa	4 sh

SOC 341	Ethnic and Race Relations	4 sh
AAA 361-9	Seminars in African/African-American Studies	4 sh
AAA 491	Independent Study	4 sh
TOTAL		20 sh

AAA 361-369. SEMINARS IN AFRICAN/AFRICAN-AMERICAN STUDIES**4 sh**

Interdisciplinary seminars focus on modern scholarship in African and African-American Studies. Topics vary according to course theme.

AAA 491. INDEPENDENT STUDY**1-4 sh****Anthropology**

See Sociology.

Art

Chair, Art Department: Associate Professor Hassell

Professor: Sanford

Associate Professors: Simpkins, Tucker

Assistant Professors: Fels, Ringleberg, Salmond, Wood

Adjuncts: Gignoux, J. Henricks, K. Lanzoni, Rhoades, Rosenblatt-Farrell, Schaeffer, Taylor, Varry

Studio art and art history provide students with many opportunities to develop their visual awareness, engage in creative activity and to understand and critique our visual and cultural heritage. A variety of art courses are open to all students, majors and minors alike.

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The studio art curriculum offers a balance of courses in art fundamentals and electives with in-depth involvement in the medium of concentration. An art major chooses a concentration in either ceramics, digital art, painting or photography and is required to produce a senior thesis exhibition in their final spring semester. All studio courses emphasize hands-on experience where confidence, skills and ideas are developed. Small classes and well-equipped work spaces provide students with the environment and tools conducive to the creative process. Students work closely with a faculty of active artists with first-hand knowledge of the medium.

Art history is a discipline that is both interdisciplinary and unique. It is interdisciplinary in that it integrates a broad range of studies in order to examine culture and history; it is unique in that it has specialized forms of analysis that are crucial to understanding the visual arts as primary sources of knowledge. In addition to training students to research and write about these issues critically, the art history minor also enriches the experience of the studio-focused student by providing greater insight into the historical and theoretical aspects of art making.

The A.B. in art requires 48 semester hours and allows art majors to pursue a minor or double major. The degree in art builds on Elon's strong General Studies program to produce creative thinkers who are prepared for further professional and educational challenges.

A major in Art requires the following courses:

ART 112	Fundamentals of Design	4 sh
ART 201	Drawing I	4 sh

ART 221	Art and History I: Prehistory to the Middle Ages	4 sh
ART 222	Art and History II: Renaissance to Contemporary	4 sh
ART 320	Issues in Contemporary Art	4 sh
ART 380	Professional Practices in Art	2 sh
ART 461	Senior Seminar	2 sh
Eight hours of art or art history, four of which must be at the 300-400 level		8 sh
Four courses in one concentration		16 sh
TOTAL		48 sh

It is recommended that ART 112, ART 201 and ART 221 or ART 222 be taken before the concentration courses.

Concentrations

Ceramics **16 sh**

- ART 200 Ceramics I
- ART 300 Ceramics II
- ART 400 Advanced Projects in Ceramics
(must be taken for two semesters)

Digital Art **16 sh**

- ART 263 Digital Art I
- ART 363 Digital Art II
- ART 463 Digital Art III
- ART 483 Digital Art IV

Painting **16 sh**

- ART 202 Painting I
- ART 302 Painting II
- ART 402 Advanced Projects in Drawing and Painting
(must be taken for two semesters)

Photography **16 sh**

- ART 205 Photography I
- ART 305 Photography II
- ART 405 Photography III
- ART 485 Photography IV

A minor in Art requires the following courses:

ART 112	Fundamentals of Design	4 sh
ART 201	Drawing I	4 sh
ART 221	Art and History I: Prehistory to the Middle Ages	4 sh or
ART 222	Art and History II: Renaissance to Contemporary	4 sh
ART 320	Issues in Contemporary Art	4 sh
Two sequential courses in one media: painting, ceramics, photography or digital art		8 sh
TOTAL		24 sh

A minor in Art History requires the following courses:

ART 221	Art and History I: Prehistory to the Middle Ages	4 sh
ART 222	Art and History II: Renaissance to Contemporary	4 sh
ART 230	Non-Western Art and History	4 sh
Twelve semester hours of Art History electives, which must be at the 300-400 level		12 sh
TOTAL		24 sh

Multimedia Authoring minor: See Multimedia Authoring.

ART 112. FUNDAMENTALS OF DESIGN **4 sh**

This introduction to the fundamental principles and processes of two-dimensional and three-dimensional design uses a variety of media. Emphasis is placed on problem-solving, craftsmanship, creative exploration and effective use of the language of art. Material fee: \$75. Offered fall and spring.

ART 200. CERAMICS I **4 sh**

This introduction to principles and processes of working with clay and glazes emphasizes basic construction techniques and kiln firing. Material fee: \$75. Offered fall and spring.

ART 201. DRAWING I **4 sh**

Students learn the fundamentals of drawing and composition using various media. Material fee: \$75. Offered fall and spring.

ART 202. PAINTING I **4 sh**

Painting I introduces the techniques of painting and composition in oils, with additional emphasis on color theory and creative exploration of the medium. Material fee: \$125. Offered fall and spring.

ART 203. WATERCOLOR **4 sh**

Coursework studies various techniques of painting and composition with watercolor, emphasizing color theory and creative exploration of the medium. Material fee: \$40.

ART 205. PHOTOGRAPHY I **4 sh**

Photography I introduces students to the techniques, processes and language of photography. Emphasis is placed on the expressive qualities of the medium by making pictures that communicate individual experiences and ideas. Laboratory experience included. No prior experience necessary; students must provide a 35mm camera. Lab fee: \$150. Offered fall and spring.

ART 221. ART AND HISTORY I: PREHISTORY TO THE MIDDLE AGES **4 sh**

This is an introductory survey of the visual arts of Western culture from prehistory through the Middle Ages, emphasizing major works of art, their creators and their contexts. We will discuss the categorization of art through style, chronology and ideology. No prerequisite.

ART 222. ART AND HISTORY II: RENAISSANCE TO CONTEMPORARY **4 sh**

This is an introductory survey of the visual arts of Western culture from the Renaissance through the present, emphasizing major works of art, their creators and their contexts. We will discuss the categorization of art through style, chronology and ideology. No prerequisite.

ART 230. NON-WESTERN ART AND HISTORY **4 sh**

This course presents an overview of the arts of non-European or European-descended

peoples. It may include cultures from the following regions: Africa, Oceania, Native North America, Pre-Hispanic Central and South America, and Asia. Coursework will consider artistic styles, contexts and use of objects and how those objects, styles and cultures fit into a broader discourse on art, history and culture. No prerequisite.

ART 263. DIGITAL ART I

4 sh

This course provides an introduction to the computer, software and related peripherals as tools in service of the creation of artwork. Digital Art I covers the basic elements of visual language and design and introduces students to the possibilities of this emerging medium through examples of work by professional artists, illustrators and designers. Students will conceive and produce artwork, develop critical thinking skills and learn how to conduct research on topics related to technologies in the arts. Material fee: \$100. Offered fall and spring.

ART 300. CERAMICS II

4 sh

Students continue from ART 200, with emphasis on wheel-thrown forms, glaze mixing, kiln firing and studio management. Prerequisite: ART 200. Material fee: \$75.

ART 301. DRAWING II

4 sh

A continuation of ART 201, this course emphasizes composition, critical analysis and productive exploration through more extended studies in a variety of media. Prerequisite: ART 201. Material fee: \$75.

ART 302. PAINTING II

4 sh

A continuation of ART 202, this class emphasizes individual development, advanced critical analysis of visual images and productive exploration of the medium. Prerequisite: ART 202. Material fee: \$125.

ART 305. PHOTOGRAPHY II

4 sh

A continuation of ART 205, this course builds on the ideas and information in Photography I. More advanced techniques and a deeper understanding of the qualities and history of photography provide greater control over how photographs look and what they state. Prerequisite: ART 205. Lab fee: \$150.

ART 320. ISSUES IN CONTEMPORARY ART

4 sh

This course considers the arts since 1945, covering the period both broadly and in selective detail to better understand how and why art in our time takes the forms it does. We will consider new approaches to creating and exhibiting art, relevant social and political issues to which artists respond and the impact of critical theory upon both the visual art, art history and criticism. No prerequisite. Offered fall and spring.

ART 340. HISTORY OF PHOTOGRAPHY

4 sh

This course surveys the history of the photographic arts from the development of the camera obscura to the present use of digital technologies. Issues discussed may include the role of technology in the arts; scopophilia and voyeurism; the use of photography in science, government, propaganda and advertising; perceptions of objective reality and manipulation in the photographic image; reproducibility, time and movement; and personal/amateur photography. No prerequisite.

ART 341. AFRICAN ART

4 sh

This course presents a selective survey of the arts of sub-Saharan Africa. It examines artistic production through a variety of media – sculpture, painting, architecture, performance and personal decoration – and a myriad of social contexts – initiation, religious ceremony, political and royal institutions, domestic arenas, cross-cultural exchanges and colonialism. No prerequisite.

ART 343. RENAISSANCE ART HISTORY

4 sh

This course provides an introduction to the art of painting, architecture and sculpture of the Italian and Northern Renaissance. The examination of this fundamental time

period in the history of art provides the opportunity for investigating the relation between art and its rich social, political and cultural backdrops, as well as understanding how currents that emerged in the Renaissance have influenced our perceptions of society and art and the way in which we view art and its makers. No prerequisite.

ART 263. DIGITAL ART II

4 sh

In this course students continue to build on the skills and ideas introduced in ART 263 with the addition of digital photography, alternative materials, interactivity, animation and Web design. Students further investigate the creative potential of the computer through projects that integrate advanced software tools with strategies for creating complex imagery and are introduced to new software in the production of Web-related artwork. Students continue their critical inquiry into the medium through required readings and research. Prerequisite: ART 263. Material fee: \$100.

ART 380. PROFESSIONAL PRACTICES IN ART

2 sh

This course provides practical information for advanced students considering a career in art. Topics covered include documenting artwork; writing resumes, artist statements and cover letters; developing skills in presentation, promotion and exhibition preparation; applying to graduate school and preparing for other postgraduate opportunities. Junior standing art majors or instructor permission required. Offered fall.

ART 400. ADVANCED PROJECTS IN CERAMICS

4 sh

A continuation of ART 300, emphasis in this course is on increased individual exploration of a single form-making process, glaze calculation and kiln firing. Prerequisite: ART 300. Material fee: \$75. May be repeated a maximum of three times for credit.

ART 402. ADVANCED PROJECTS IN DRAWING AND PAINTING

4 sh

This continuation of ART 302 emphasizes increased individual exploration of the medium and the development of a focused body of work. Prerequisite: ART 302. Material fee: \$125. Offered fall. May be repeated a maximum of three times for credit.

ART 405. PHOTOGRAPHY III

4 sh

This course continues ART 305 with a semester-long project proposed and developed by each student, concluding in a portfolio. Course emphasis is on individual participation through class presentations on techniques and issues in contemporary photography. Prerequisite: ART 305. Lab fee: \$150.

ART 461. SENIOR SEMINAR

2 sh

Senior Seminar is intended to broaden the senior art major's perspective on art-making through an investigation of significant topical issues. Reading, discussions and writing about these alternative views will help us understand that creativity is something that not only emanates from within ourselves, but is also a phenomenon that is heavily influenced by external forces. Spring semester only.

ART 463. DIGITAL ART III

4 sh

This course continues ART 363 with the introduction of advanced tools in Web site design, animation, virtual reality and multimedia authoring. Students continue their critical inquiry into the medium through required readings and discussions and will learn how to explore and critique interactive multimedia artworks. Prerequisite: ART 363. Material fee: \$100.

ART 481. INTERNSHIP IN ART

1-4 sh

Internships are designed to provide students with invaluable work experience and insight into art and art history-related professions. In addition to hands-on work, internships involve reflection assignments and supervisor evaluations as part of the learning process.

ART 483. DIGITAL ART IV

4 sh

This course continues ART 463 with a portfolio project which emphasizes intense individual exploration of digital media resulting in a unified body of work that includes

supporting materials such as an artist statement and electronic presentation of work. Materials fee: \$100.

ART 485. PHOTOGRAPHY IV

4 sh

Photography IV is a self-directed involvement in a long-range photographic project proposed, researched and executed in consultation with the instructor/mentor. The project should reflect the student's knowledge and experience in the medium and culminate in a coherent portfolio for exhibition or publication. Materials fee: \$150.

ART 491. INDEPENDENT STUDY

1-8 sh

Art majors and minors may pursue a program of advanced study and individual exploration in studio art or art history. Proposals for independent study should be prepared and submitted in the semester prior to enrollment. The instructor may require class attendance. Maximum 8 semester hours of credit, by permission of art faculty only.

ART 499. RESEARCH IN ART

1-8 sh

Students engage in an undergraduate research project under the guidance of an Art Department mentor. A special research proposal form must be prepared and submitted in consultation with the mentor. Maximum of 8 semester hours of credit.

Asian/Pacific Studies

Coordinator: Professor Digre

The vast area of the Pacific Rim is of major importance in political, economic and cultural terms. This program aids students to shift from an Atlantic to a Pacific perspective, to focus on some particular Asian/Pacific cultures, and to take first steps not only in seeing Asia with Western eyes but also in seeing the West through Asian eyes.

Asian/Pacific Studies takes an interdisciplinary approach to study the peoples and cultures of Asia and the Pacific Rim. The program allows students to select from a current group of courses approved by an advisory group.

The minor consists of a minimum of 20 credit hours. The Asian/Pacific Studies program may be expanded into an international studies major with Asian/Pacific Studies as a regional concentration. See note.

Foreign language study (e.g., Japanese or Chinese) is strongly recommended as is a study abroad experience in the region.

A minor in Asian/Pacific Studies requires 20 semester hours selected from the following list. Courses must be chosen from at least two disciplines.

General Asian/Pacific Studies courses

ENG 337	Asian Literature of Social Change	4 sh
ENS 310	Environmental Issues of Southeast Asia	4 sh
HST 320	China, Japan and the Pacific Century: Era of War and Revolution	4 sh
POL 363	Politics of Asia	4 sh
PHL 352	Eastern Philosophy	4 sh
REL 353	Buddhism	4 sh
REL 356	Hinduism	4 sh
APS 361-369	Seminars in Asian/Pacific Studies	2-4 sh
APS 481	Internship in Asian/Pacific Studies	1-4 sh

Asian/Pacific Foreign Language Courses

While not required for the minor, up to 8 semester hours of the courses below may count toward the minor.

CHN 121	Elementary Chinese I	4 sh
CHN 122	Elementary Chinese II	4 sh
CHN 221	Intermediate Chinese I	4 sh
JPN 121	Elementary Japanese I	4 sh
JPN 122	Elementary Japanese II	4 sh
JPN 221	Intermediate Japanese I	4 sh

Study Abroad in the Region

While not required for the minor, up to 4 semester hours of such study abroad may count for the minor.

Approved course lists for study abroad in Asia and the Pacific Rim may be obtained from the program coordinator.

TOTAL	20 sh
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Note: If they choose, students can extend the minor into an international studies major, with a regional concentration in Asia and the Pacific Rim. In this way, the minor supports the international studies major by providing focus for a regional concentration and opportunity to acquire language skills. For details and other requirements, see International Studies.

Athletic Training

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Chair, Department of Health and Human Performance: Associate Professor J. Davis
 Professors: Beedle, Calhoun
 Associate Professor: Miller
 Assistant Professors: Allen, Baker, Hall, Smith
 Instructors: Calone, Myers

The Athletic Training Education Program (ATEP) major located within the Health and Human Performance (HHP) Department includes clinical education and internship experiences within a CAAHEP approved curriculum. Admission into the ATEP requires a separate application process that is outlined in the ATEP application packet which can be obtained through the HHP Department.

Students with disabilities or for more information about the technical standards of Elon's ATEP, please visit the program's Web site at: www.elon.edu/athletictraining. Students wishing to transfer into the program from another institution should also access the program's Web site.

Upon completion of the curriculum, students are eligible to sit for the BOC certification exam. Graduates of this program may pursue careers in athletic training or graduate degrees in other allied health professions after satisfying the appropriate prerequisites.

A major in Athletic Training Education requires the following courses:

ATP 112★	Athletic Training I	4 sh
ATP 212	Athletic Training II	4 sh

ATP 301	Clinical Education I	2 sh
ATP 302	Clinical Education II	2 sh
PED 305	Legal Aspects	2 sh
ATP 311	Introduction to Pharmacology	2 sh
ESS 315	Advanced Strength Training Conditioning	4 sh
ATP 329	Assessment of Athletic Injuries	4 sh
ATP 330	Therapeutic Exercise/Rehabilitation	4 sh
ATP 401	Clinical Education III	2 sh
ATP 402	Clinical Education IV	2 sh
ESS 422	Physiology of Exercise	4 sh
ATP 430	Therapeutic Modalities	4 sh
ATP 481	Internship in Athletic Training	2 sh
ATP 495	Senior Seminar	2 sh
PED 321	Biomechanics	4 sh
PED 410	Organization and Administration	4 sh
HED 220	First Aid	1 sh
HED 324	Nutrition	4 sh
HED 421	Chronic and Acute Diseases	4 sh
BIO 161*	Human Anatomy	4 sh
BIO 162	Human Physiology	4 sh
PSY 111	General Psychology	4 sh

TOTAL		73 sh
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*Courses required for ATEP application.

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ATP 112. ATHLETIC TRAINING I

4 sh

This course introduces the student to the profession and principles of athletic training, including topics such as sports medicine organizations, emergency care of specific injuries, emergency procedures, tissue repair and healing, transportation and transfer of catastrophic injuries, methods of bandaging and dressing wounds and adhesive taping. Offered fall and spring.

ATP 212. ATHLETIC TRAINING II

4 sh

Students will gain practical knowledge and hands-on experience of advanced skills and techniques of athletic training. Topics include but are not limited to protective sports devices and equipment, drugs and sports, skin disorders, specific sports conditions and injuries, and advanced taping skills. Prerequisites: ATP 112, BIO 161, admission to the athletic training education program or permission of instructor. Offered fall.

ATP 301. CLINICAL EDUCATION I

2 sh

This course is the first in a progressive series of four clinical education courses and is intended to apply theories learned in ATP 212 assessment and previous athletic training classes in a clinical setting. Outcome-based assessments of clinical skills will be performed to determine duties and responsibilities in each setting. Athletic training students are exposed to the practice of athletic training and are supervised by practicing certified athletic trainers. Rotations with medical doctors and other allied medical professionals will also be completed as a learning opportunity and to obtain a sense of where certified athletic trainers fit into the sports medicine team. Prerequisite: ATP 212. Offered spring.

ATP 302. CLINICAL EDUCATION II**2 sh**

This course is the second in a series of four clinical education courses. The athletic training student continues to practice and improve clinical decision-making skills by building upon Clinical Education I. Outcome-based assessments of clinical skills will be performed to determine duties and responsibilities in each setting. These students are further exposed to the practice of athletic training and are supervised by practicing certified athletic trainers. Prerequisite: ATP 301. Offered fall.

ATP 311. INTRODUCTION TO PHARMACOLOGY**2 sh**

This course is designed as an introduction to pharmacology. Pharmacodynamics, pharmacokinetics, and drug interactions and reactions will be discussed. Extra attention will be given to drugs commonly used in sports medicine including but not limited to: PNS- and CNS-acting, anti-inflammatory, antibiotics, gastrointestinal-acting, respiratory-acting and ergogenic aids. An understanding of the practical implication of using these drugs will be emphasized. Prerequisite: BIO 162 or permission of instructor. Offered fall of odd years.

ATP 329. ASSESSMENT OF ATHLETIC INJURIES**4 sh**

This course familiarizes students with the principles of assessing sport injuries, including injury history, inspection, palpation, range of motion tests, muscle function tests, joint stability, neurological tests and specific anatomical features. This course is designed with a lecture and laboratory component. Prerequisites: ATP 212, admission to the athletic training education program or permission of instructor. Offered fall.

ATP 330. THERAPEUTIC EXERCISE AND REHABILITATION**4 sh**

Students study the process and components of therapeutic rehabilitation. Emphasis is placed on deconditioning and reconditioning following injury, as well as the contribution of various forms of exercise and therapeutic techniques on recovery. Prerequisites: ATP 329, admission to the athletic training education program or permission of instructor. Offered spring.

ATP 401. CLINICAL EDUCATION III**2 sh**

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This course is the third in a series of four clinical education courses. The athletic training student continues to practice and improve clinical decision-making skills by building upon ATP 302 and ATP 329. Students are given more responsibility and required to problem solve and improve their decision-making abilities in a practical setting while under the supervision of a practicing certified athletic trainer. Outcome-based assessments are performed to determine duties and responsibilities in each setting. Prerequisite: ATP 302. Offered spring.

ATP 402. CLINICAL EDUCATION IV**2 sh**

This course is the fourth in a series of clinical education courses. It is intended to be a capstone course to bring together all of the theories and skills learned in the classroom and clinical education courses and apply them in a practical setting under the supervision of a working professional. This course is intended to provide the student the opportunity to show mastery of the skills needed to function as a successful certified athletic trainer through outcome-based assessments. Successful completion of this course is required to sit for the BOC certification exam. Prerequisite: ATP 401. Offered fall.

ATP 430. THERAPEUTIC MODALITIES**4 sh**

This course is designed to cover topics in therapeutic modalities as they relate to athletic training. It is directed toward students who plan on pursuing careers in athletic training and/or physical therapy. The main topics discussed in this class will be the theory workings, application and use of therapeutic modalities in the rehabilitation of sports injuries, and the effect of therapeutic modalities on both the stages of healing and pain process. Prerequisites: ATP 330, admission to the athletic training education program or permission of instructor. Offered fall.

ATP 481. INTERNSHIP IN ATHLETIC TRAINING**2-4 sh**

In this course, upper-level majors have opportunities to apply classroom knowledge and skills to real world problems under the supervision of a faculty member and a certified athletic trainer. Settings may include a sports medicine clinic, professional sports team, corporate setting, etc. Students must keep a daily journal of their experiences, which are discussed in conferences with the faculty supervisor. The student must also complete a project benefiting the internship facility, but which would not have been possible without the student. Student evaluations are based on these assignments. Students should make arrangements with their professors the semester prior to taking the internship. Prerequisites: ATP 329, 330; junior/senior majors only; permission of department; 2.0 GPA overall, 2.0 GPA in major. Offered fall, winter, spring and summer.

ATP 491. INDEPENDENT STUDY**1-4 sh****ATP 495. SENIOR SEMINAR IN ATHLETIC TRAINING****2 sh**

This course is designated to be the capstone class for the athletic training major. The course will review acquired knowledge and experiences of the athletic training curriculum. Students will be prepared to sit for the BOC certification exam. Students will discuss moral and ethical responsibility, state licensure, continuing education, decision-making accountability and conflict management. The NATA professional code of practice and standards of practice will be reviewed. Resume and interview skills will be discussed. Prerequisite: senior majors only. Offered spring.

ATP 499. RESEARCH IN ATHLETIC TRAINING**1-4 sh**

Independent research project supervised by faculty mentor.

Biology

Chair, Department of Biology and Allied Health: Associate Professor Kingston

Professors: H. House, S. House

Associate Professors: M. Clark, Haenel, N. Harris, MacFall, Seidel, Vick

Assistant Professors: Coker, Gallucci, Miyamoto, Niedziela, Stenke, Touchette

Adjuncts: DeVries, Vandermaast

Biology is the study of life in all its diverse forms. As a species, we have always been deeply fascinated by other living creatures. Early human's dependence on other animals and plants for food, medicine and shelter fostered an appreciation for life's interconnectedness. Modern society has rediscovered these relationships in the face of such challenges as global warming, rain forest destruction, AIDS, rising cancer rates and industrial pollution.

Our approach to biology at Elon University stresses hands-on experiences in the classroom, laboratory and field. The course of study includes off-campus experiential opportunities and research seminars that encourage creative approaches to biological problems. The focus is on science as a process, not merely a collection of established facts.

The faculty strives to provide students with a high quality program that enables them to (1) develop critical thinking and problem-solving skills to better understand and meet present and future biological challenges; (2) develop competency in information retrieval, use and analysis; (3) develop an understanding of the latest technologies utilized in biological investigation; (4) acquire broad-based knowledge of biological concepts from molecules to ecosystems; and (5) acquire an experiential learning opportunity through either research, internship or laboratory assistantship.

The Bachelor of Science in Medical Technology (MT) consists of three years of preprofessional training at Elon followed by application to the 12-month clinical program at our

affiliated hospital. Admission to the affiliated program is competitive and based on overall GPA, evaluation by faculty and personal interviews. Students may also apply to a variety of Medical Technology programs once a bachelor's degree is completed with the appropriate prerequisites.

In all of Elon's biology offerings, students receive a strong foundation in biology that prepares them for graduate studies, medical and other allied health-related professional schools, teaching and industry.

The Department of Biology and Allied Health offers programs leading to the Bachelor of Arts or Bachelor of Science degree with a major in Biology, the Bachelor of Science degree with a major in Medical Technology and a minor concentration in biology for students majoring in another discipline.

The Department of Biology has divided its laboratory course offerings that serve as electives into three functional categories to assist students in the development of a broad-based major with the necessary fundamental biological concepts while at the same time providing the student with the flexibility to build a program that meets their individual interests and needs.

Molecular/Cellular Biology	Organismal Biology	Supraorganismal Biology
BIO 322	BIO 316 BIO 343	BIO 335
BIO 345	BIO 318	BIO 344
BIO 348	BIO 321	BIO 442
BIO 351	BIO 325	BIO 452
BIO 352	BIO 342	

Both the Bachelor of Arts and the Bachelor of Science degrees in Biology require the following **Core Courses**:

BIO 111	Introductory Cell Biology	3 sh
BIO 112	Introductory Population Biology	3 sh
BIO 113	Cell Biology Lab	1 sh
BIO 114	Population Biology Lab	1 sh
BIO 221	General Zoology	4 sh
BIO 222	General Botany	4 sh
BIO 261	Introductory Seminar	2 sh
BIO 322	Molecular and Cellular Biology	4 sh

One course selected from the Organismal Biology category: 4 sh

BIO 316	Developmental Biology
BIO 318	Comparative Vertebrate Structure & Function
BIO 321	Microbiology
BIO 325	Human Histology
BIO 342	Plant Physiology
BIO 343	Clinical Anatomy

One course selected from the Supraorganismal Biology category: 4 sh

BIO 335	Field Biology
BIO 344	Evolution
BIO 442	Aquatic Biology
BIO 452	General Ecology

Eight semester hours of electives selected from the following: 8 sh

Organismal Biology category

Supraorganismal Biology category

Molecular/Cellular Biology category

This may include a maximum of two 2-semester hour special topics seminars.

BIO 462 Senior Seminar 2 sh

TOTAL 40 sh

A Bachelor of Arts degree in Biology requires the following courses:

Core Courses in Biology 40 sh

CHM 111 General Chemistry I 3 sh

CHM 113 General Chemistry I Lab 1 sh

CHM 112 General Chemistry II 3 sh

CHM 114 General Chemistry II Lab 1 sh

or (in lieu of CHM 111, 113, 112, 114)

CHM 115 Advanced General Chemistry (3 sh)

CHM 116 Advanced General Chemistry Lab (1 sh)

MTH 112 General Statistics 4 sh

In addition, a required experiential component selected from the following:

(a) internship

(b) research

(c) a specialized approved laboratory assistantship.

TOTAL 48-52 sh

A Bachelor of Science degree in Biology requires the following courses:

Core Courses in Biology 40 sh

CHM 111 General Chemistry I 3 sh

CHM 113 General Chemistry I Lab 1 sh

CHM 112 General Chemistry II 3 sh

CHM 114 General Chemistry II Lab 1 sh

or (in lieu of CHM 111, 113, 112, 114)

CHM 115 Advanced General Chemistry (3 sh)

CHM 116 Advanced General Chemistry Lab (1 sh)

CHM 211 Organic Chemistry I 3 sh

CHM 212 Organic Chemistry II 3 sh

CHM 213 Organic Chemistry I Lab 1 sh

CHM 214 Organic Chemistry II Lab 1 sh

PHY 111 General Physics I 4 sh

PHY 112 General Physics II 4 sh

or

PHY 113 General Physics I with Calculus 4 sh

PHY 114 General Physics II with Calculus 4 sh

MTH 112 General Statistics 4 sh

In addition, a required experiential component selected from:

(a) internship

(b) research

(c) a specialized approved laboratory assistantship.

TOTAL 64-68 sh

A Bachelor of Science degree in Medical Technology requires 40–47 semester hours of coursework at Elon University and completion of the clinical curriculum.

BIO 111	Introductory Cell Biology	3 sh
BIO 112	Introductory Population Biology	3 sh
BIO 113	Cell Biology Lab	1 sh
BIO 114	Population Biology Lab	1 sh
BIO 321	Microbiology	4 sh
BIO 345	Genetics	4 sh
CHM 111	General Chemistry I	3 sh
CHM 113	General Chemistry I Lab	1 sh
CHM 112	General Chemistry II	3 sh
CHM 114	General Chemistry II Lab	1 sh
or (in lieu of CHM 111, 113, 112, 114)		
CHM 115	Advanced General Chemistry (3 sh)	
CHM 116	Advanced General Chemistry Lab (1 sh)	
CHM 211	Organic Chemistry I	3 sh
CHM 212	Organic Chemistry II	3 sh
CHM 213	Organic Chemistry I Lab	1 sh
CHM 214	Organic Chemistry II Lab	1 sh
PHY 111	General Physics I	4 sh
PHY 112	General Physics II	4 sh
MTH 112	General Statistics (or higher)	4 sh
A course in immunology: Immunology as a separate course or as part of a microbiology course		0–3 sh

Recommended additional courses:

CHM 311	Quantitative Analysis
CIS 112	Problem Solving with Spreadsheet Applications
CIS 114	Introduction to Web Site Development
BIO 162	Human Physiology
BUS 303	Introduction to Managing

A mathematics course higher than MTH 112

Completion of the clinical curriculum

TOTAL	40–47 sh
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A minor in Biology requires the following courses:

BIO 111	Introductory Cell Biology	3 sh
BIO 113	Cell Biology Lab	1 sh
Sixteen semester hours chosen from the following:		16 sh
BIO 112	Introductory Population Biology	
BIO 114	Population Biology Lab	
Biology courses at the 200–400 level		

TOTAL	20 sh
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BIO 101. TOPICS IN GENERAL BIOLOGY**3 sh**

This topical approach to the foundational concepts of biology examines theories and issues in biology as they relate to varying special topics selected by the instructor. To satisfy the general studies laboratory science requirement, BIO 102 should be taken concurrently. No credit to students with prior credit for BIO 111. No credit toward biology major or minor. Offered fall and spring.

BIO 102. GENERAL BIOLOGY LABORATORY**1 sh**

This two-hour laboratory provides experiences to complement selected foundational concepts from BIO 101. To satisfy the general studies laboratory science requirement, BIO 101 and 102 should be taken concurrently. No credit to students with prior credit for BIO 113. No credit toward biology major or minor. Offered fall and spring.

BIO 105. CURRENT ISSUES IN BIOLOGY**4 sh**

Designed for nonscience majors, this course focuses on reading, interpreting and evaluating facts behind biological issues and exploring the implications for science and human society. Students conduct library research, present oral reports, discuss and write papers on these issues. No credit toward biology major or minor. Satisfies General Studies nonlaboratory science requirement. Offered winter.

BIO 111. INTRODUCTORY CELL BIOLOGY**3 sh**

In this introduction to organization and function at the cellular level, topics of study include basic cell chemistry and structure, transport, energetics and reproduction. Required for biology majors/minors. Corequisite: BIO 113. Offered fall and spring.

BIO 112. INTRODUCTORY POPULATION BIOLOGY**3 sh**

Topics of study in this introduction to organization and function at the population level include reproduction and transmission genetics, patterns and mechanics of evolutionary change and basic concepts of ecology. Required for biology majors/minors. Corequisite: BIO 114. Offered fall and spring.

BIO 113. CELL BIOLOGY LABORATORY**1 sh**

Students have three hours of laboratory experience per week with topics complementing concurrent study in BIO 111. Required for biology majors/minors. Corequisite: BIO 111. Offered fall and spring.

BIO 114. POPULATION BIOLOGY LABORATORY**1 sh**

Students have three hours of laboratory experience per week with topics complementing concurrent study in BIO 112. Required for biology majors/minors. Corequisite: BIO 112. Offered fall and spring.

BIO 161. HUMAN ANATOMY**4 sh**

This course builds a basic foundation in regional human anatomy. Lectures emphasize macroscopic and some microscopic studies of the human body. Special emphasis will be placed on musculoskeletal and neuromuscular anatomy. Laboratory involves progressive anatomical dissections of human cadavers, use of human anatomy instructional software and examination of osteological models. Three class hours, 1 laboratory per week. No credit toward BIO major/minor. Offered fall and spring.

BIO 162. HUMAN PHYSIOLOGY**4 sh**

This study of human physiology emphasizes skeletal, muscular, nervous, endocrine, heart, blood, respiratory, digestive and urinary aspects. Three class hours, one laboratory per week. No credit toward biology major or minor. Offered fall and spring.

BIO 181. BIOLOGY LABORATORY TECHNIQUES**2 sh**

Skills taught in this training course for prospective laboratory assistants include laboratory procedures, materials preparation and grading procedures. Offered spring.

BIO 215. ORGANISMAL BIOLOGY AND FIELD TECHNIQUES**4 sh**

This course examines the basic concepts of biological form and function and the fundamentals of organismal systematics with a focus on herbaceous and woody plants, invertebrates and microbial ecology. Students investigate the natural history of local species and their role in community dynamics. Laboratory experiences emphasize keying and identification, field methodologies of specimen collection and preservation, sampling techniques and population estimation procedures for terrestrial and aquatic ecosystems. Satisfies the General Studies lab science requirement. No credit toward the major. Prerequisites: ENS 111/113 or BIO 112/114. (BIO 215 is cross-listed with ENS 215.) Offered spring.

BIO 221. GENERAL ZOOLOGY**4 sh**

Students survey the animal kingdom (emphasizing selected vertebrates and invertebrates) investigating basic concepts of morphology, anatomy, physiology and taxonomy as they affect the ecology of the animal. Three class hours, one laboratory per week. Prerequisites: BIO 111, 112, 113, 114. Offered fall and spring.

BIO 222. GENERAL BOTANY**4 sh**

This survey of the plant kingdom (emphasizing vascular plants) includes general morphology, anatomy, physiology of metabolism and growth, economic importance and identification. Three class hours, one laboratory per week. Prerequisites: BIO 111, 112, 113, 114. Offered fall and spring.

BIO 261. INTRODUCTORY SEMINAR**2 sh**

Students learn to use primary information sources and gain practice in manual and computer information retrieval, read and interpret research and review papers, write abstracts and present scientific information orally. Recommended for sophomore year. Offered fall.

BIO 271. SPECIAL TOPICS SEMINAR**2-4 sh**

Study focuses on one biological topic per seminar in this nonlaboratory discussion course for biology majors. Topics are determined by student and faculty interest. Must have instructor's consent. Offered winter.

BIO 316. DEVELOPMENTAL BIOLOGY**4 sh**

This course examines the changes that occur at the cellular and subcellular level as a single-cell zygote develops into a multi-cellular organism. Topics include fertilization, blastula formation, gastrulation and organogenesis. Three class hours, one laboratory per week. Prerequisites: BIO 221; CHM 111, 112, 113, 114 or CHM 115/116. Offered spring of even-numbered years.

BIO 318. COMPARATIVE VERTEBRATE STRUCTURE AND FUNCTION**4 sh**

This course is an evolutionary approach to the form and function of vertebrates. Students will investigate a diversity of traits and follow the evolutionary changes of these traits from the earliest vertebrates to mammals. The primary focus is on the move from aquatic to terrestrial habitats, the evolution of flight and the evolution of endothermy. Students will compare changes in form and function of the major organ systems through laboratory dissection of the jawless fish, shark, amphibian and mammal. Prerequisites: BIO 112, 114, 221. Offered fall of even-numbered years.

BIO 321. MICROBIOLOGY**4 sh**

In a general survey of microorganisms, study emphasizes bacteria, their cytophysiological characteristics and classification, viruses, microbial diseases and immunity, and the role of microorganisms in human affairs. Three class hours, one laboratory per week. Prerequisites: BIO 111, 113; CHM 111, 112, 113, 114 or CHM 115/116. Junior standing or consent of instructor. Offered spring of even-numbered years.

BIO 322. MOLECULAR AND CELLULAR BIOLOGY**4 sh**

This course is a study of the structure and function of prokaryotic and eukaryotic cells

at the molecular level. It examines in depth specific biochemical pathways and processes essential to life. Topics include considerable coverage of the principles, techniques and applications of molecular genetics. Three class hours, one laboratory per week. Junior standing or consent of instructor. Prerequisites: BIO 111, 112, 113, 114; CHM 111, 112, 113, 114 or CHM 115/116. Offered fall and spring.

BIO 325. HUMAN HISTOLOGY 4 sh

Students survey human body tissues (especially of the cardiovascular, alimentary, respiratory, urinary and reproductive systems), stressing tissue identification and the relationship of microanatomy to physiology of the human body. Three class hours, one laboratory per week. Prerequisites: BIO 111, 113. Offered fall of odd-numbered years.

BIO 335. FIELD BIOLOGY 4 sh

In this field-oriented course, restricted to selected natural taxa, environments or biological phenomena, in-depth field study may include identification, classification, life histories and relationships among organisms. Prerequisite: consent of instructor. Offered winter and/or summer.

BIO 342. PLANT PHYSIOLOGY 4 sh

Topics in this study of the life processes of plants include photosynthesis, mineral nutrients, movement of materials, plant growth substances and senescence. Three class hours, one laboratory per week. Prerequisites: BIO 222; CHM 111, 112, 113, 114 or CHM 115/116. Offered spring of odd-numbered years.

BIO 343. CLINICAL ANATOMY 4 sh

This course uses the regional approach to build a strong foundation in human anatomy. Lectures emphasize structure, basic clinical concepts and some functional and mechanical relationships at the gross anatomical level. Laboratory includes dissection of human cadavers, use of human anatomy instructional software, examination of osteological models and applications of basic radiology. Three class hours, one laboratory per week. Prerequisites: BIO 221; CHM 111, 112, 113, 114 or CHM 115/116. Offered fall of even-numbered years.

BIO 344. EVOLUTION 4 sh 71

In this course, students investigate the causes, rates and implications of evolutionary change in biological systems. Evolution by natural selection is the unifying theory of biology linking phenomena that occur at many different levels of biological organization. Thus, natural selection is studied in depth. Other topics include speciation, rates of molecular change, causes of mass extinctions and sexual selection. Three lecture hours, one laboratory per week. Prerequisites: BIO 112 and BIO 114. Offered spring of odd-numbered years.

BIO 345. GENETICS 4 sh

Students are introduced to Mendelian and molecular principles of genetics and the applications of these principles to the modern world. Three class hours, one laboratory per week. Prerequisites: BIO 111, 112, 113, 114; CHM 111, 112, 113, 114 or CHM 115/116. Offered fall of odd-numbered years.

BIO 348. BIOTECHNOLOGY 4 sh

Students explore how biological systems are utilized in scientific research. In collaboration with their peers, students will apply the techniques of molecular biology (restriction digestion, transformation, DNA hybridization, PCR, etc.) to investigate a research question. Emphasis will be placed on protocol design, solution preparation and critical analysis of research data. Additionally, the social context of biotechnology will be investigated as students explore the risks and rewards in this expanding field. Two laboratory periods, one class hour per week. Prerequisite: BIO 345 or 322. Offered spring of odd-numbered years.

BIO 351. BIOCHEMISTRY**3 sh**

In this survey of biochemistry as it relates to the physiology of organisms, study includes biochemical methodology, buffers, proteins (structure, function and synthesis), enzymes, bioenergetics, anabolism and catabolism of carbohydrates and lipids, and metabolic regulation. Three class hours, one laboratory per week. Prerequisites: CHM 211, 212, 213, 214. (BIO 351 is cross-listed with CHM 351.) Offered fall of odd-numbered years.

BIO 352. BIOCHEMISTRY LABORATORY**1 sh**

Experiments in this study of laboratory techniques and principles of biochemistry as it relates to the physiology of organisms include biochemical methodology, buffers, proteins (structure, function and synthesis), enzymes, bioenergetics, anabolism and catabolism of carbohydrates and lipids, and metabolic regulation. Corequisite: BIO 351. (BIO 352 is cross-listed with CHM 352.) Offered fall of odd-numbered years.

BIO 371. SPECIAL TOPICS SEMINAR**2-4 sh**

Each seminar — a nonlaboratory discussion course for biology majors — focuses on one biological topic determined by faculty interest. Offered winter.

BIO 442. AQUATIC BIOLOGY: THE STUDY OF INLAND WATERS**4 sh**

Aquatic Biology considers the chemical, physical and biological properties of freshwater ecosystems including streams, rivers, ponds and lakes. Topics include the geomorphology of inland waters, thermal stratification, nutrient cycles, community metabolism, plankton community dynamics, seasonal succession and eutrophication resulting from human activities. Weekly laboratory meetings provide hands-on experience with the field techniques of freshwater scientists. Prerequisites for biology major: BIO 221, 222; CHM 111, 112, 113, 114 or CHM 115/116. Prerequisites for environmental studies major: BIO 112, 114, 215; CHM 111, 112, 113, 114 or CHM 115/116. Junior standing or consent of instructor. Offered spring of even-numbered years.

BIO 452. GENERAL ECOLOGY**4 sh**

Students explore ecological principles at population, community and ecosystem levels in this study of the interrelationships of organisms with their biotic and abiotic environments. Three lecture hours, one laboratory per week. Prerequisites for biology major: BIO 221, 222. Prerequisites for environmental studies major: BIO 112, 114, 215. Junior standing or consent of instructor. Offered fall.

BIO 462. SENIOR SEMINAR**2 sh**

This course provides students with the opportunity to conduct both individual and group literature research projects of their own choosing based on recently published scientific papers. Students participate in group discussions of the current literature, research and write a scientific review paper, and develop a formal oral presentation. Recommended for senior year. Offered fall.

BIO 471. SPECIAL TOPICS SEMINAR**2-4 sh**

Each seminar — a nonlaboratory discussion course for biology majors — focuses on one biological topic determined by student and faculty interest. Must have instructor's consent.

BIO 481. INTERNSHIP IN BIOLOGY**1-4 sh**

Advanced-level work experience in a biological field is offered on an individual basis when suitable opportunities can be arranged. Prerequisite: permission of department.

BIO 499. RESEARCH**1-4 sh**

Students from all levels conduct laboratory and/or field research under the direction of the biology faculty. Maximum eight semester hours total credit. Prerequisite: permission of the biology faculty.

Business Administration

The Martha and Spencer Love School of Business mission statement.

To provide instruction and experiences for our students so they graduate with the knowledge, skills and character essential for responsible business leadership in the 21st century.

Chair, Department of Business Administration: Associate Professor Stevens

Professors: Burbridge, Honeycutt, Noer

Associate Professors: Baxter, Burpitt, Manring, Nienhaus, O'Mara, Paul, Powell, Schuette, Strempek, Valle

Assistant Professors: Buechler, Cort, Gunby, Hodge, Yap

Lecturer: Rich

The study of Business Administration at Elon University begins with a solid grounding in the traditional liberal arts and sciences. This preparation is an integral part of becoming an informed, responsible and capable business leader. An Elon education emphasizes the development of the whole person — mind, body and spirit. Business Administration courses at Elon University advance that commitment by emphasizing business knowledge acquisition, skill development through hands-on learning and experiential activities and the development of discipline, integrity and an ethic of service.

Students majoring in Business Administration at Elon University take courses in a common core representing the functional business disciplines (e.g., accounting, finance, management, marketing, MIS, etc.). They also have the opportunity to develop specialized knowledge in one of five areas of concentration: Finance, International Business, Management, Management Information Systems and Marketing.

Our coursework emphasizes active learning and appreciative inquiry. Rather than dictate a set of principles to be memorized, our programs emphasize the integration of business knowledge and the application of that knowledge to organizational problems. We emphasize hands-on learning through internships, co-op experiences, service learning and classroom instruction which engages students in the study and practice of business. Students also develop skills in written and oral communications, team-building and problem solving, and decision-making in our increasingly global business environment.

The Bachelor of Science in Business Administration (BSBA) program at Elon University emphasizes academic challenge, mature intellectual development and a lifetime of learning. Our graduates go on to leadership positions in business and industry in for-profit and not-for-profit organizations. Our graduates are prepared for a variety of assignments because they possess an extensive array of knowledge, skills and abilities.

A major in Business Administration requires the following:

At least 50% of the business credit hours required for the degree (B.S. in Business Administration) must be earned at Elon University.

MTH 116	Applied Mathematics with Calculus	4 sh	or
MTH 121	Calculus and Analytic Geometry I		
ECO 201	Principles of Economics	4 sh	
ECO 203	Statistics for Decision-Making	4 sh	
ECO 301	Business Economics	4 sh	
ACC 201	Principles of Financial Accounting	4 sh	
ACC 212	Principles of Managerial Accounting	4 sh	
CIS 211	Management Information Systems	4 sh	

BUS 202	Business Communications	4 sh
BUS 221	Legal Environment of Business	2 sh
BUS 311	Principles of Marketing	4 sh
BUS 323	Principles of Management and Organizational Behavior	4 sh
BUS 326	Operations Management	4 sh
BUS 465	Business Policy	4 sh
FIN 343	Principles of Finance	4 sh
Sixteen to twenty semester hours of a concentration		16-20 sh
TOTAL		70 -76 sh

Concentrations

Finance **16 sh**

One course from the following:

One 300/400 level course from the Studies in Arts and Sciences course offerings (Expression, Civilization, Society or Science). The 300/400 level Studies in Arts and Sciences course selected **must be taken in addition to** the upper-level GST and Advanced Study courses already required, and it may not also count for any other course in the student's program of study. Advisors may assist students in selection of an appropriate course which should enhance the subject matter of the student's concentration.

FIN 413 Advanced Managerial Finance

FIN 421 Investment Principles

FIN 419 Financial Services **or**

FIN 471 Seminar: Special Topics

Marketing **16 sh**

One course from the following:

One 300/400 level course from the Studies in Arts and Sciences course offerings (Expression, Civilization, Society or Science). The 300/400 level Studies in Arts and Sciences course selected **must be taken in addition to** the upper-level GST and Advanced Study courses already required, and it may not also count for any other course in the student's program of study. Advisors may assist students in selection of an appropriate course which should enhance the subject matter of the student's concentration.

Three courses from the following:

BUS 413 Integrated Marketing Communications

BUS 414 Marketing Research

BUS 415 Consumer Behavior

BUS 416 Global Marketing

BUS 417 Business-to-Business Marketing

BUS 419 Sales Management

Management **16 sh**

One course from the following:

One 300/400 level course from the Studies in Arts and Sciences course offerings (Expression, Civilization, Society or Science). The 300/400 level Studies in Arts and Sciences course selected **must be taken in addition to** the upper-level GST and Advanced Study courses already required, and it may not also count for any other course in the student's program of study. Advisors may assist students in selection of an appropriate course which should enhance the subject matter of the student's concentration.

Three courses from the following:

- BUS 424 Responsible Leadership
- BUS 425 Human Resource Management
- BUS 427 Organizational Improvement
- BUS 428 Advanced Organizational Behavior
- BUS 429 Entrepreneurship/Intrapreneurship
- BUS 430 International Business Management
- BUS 471 Seminar: Special Topics in Management

International Business

16 sh

Two of the four courses that constitute the concentration are required:

- BUS 416 Global Marketing
- BUS 430 International Business

Two 300/400 level courses should be selected from outside Business Administration. At least one of these must be from the Studies in Arts and Sciences course offerings (Expression, Civilization, Society, or Science). These courses must be taken in addition to the upper level GST and Advanced Study courses already required, and may not also count for any other courses in the student's program of study. Advisors may assist students in the selection of appropriate courses which should enhance the subject matter of the IB Concentration. Courses selected are subject to approval by the IB coordinator.

Intermediate proficiency in a modern foreign language is a concurrent requirement of the concentration. Proficiency can be demonstrated either by achieving an intermediate-mid level rating on an Oral Proficiency Interview (OPI) or a Simulated Oral Proficiency Interview (SOP), by passing a modern foreign language course at the 221 level, or by placement in the language at or above the 222 level.

Management Information Systems

20 sh

One 300/400 level course from the Studies in Arts and Sciences course offerings (Expression, Civilization, Society or Science). The 300/400 level Studies in Arts and Sciences course selected must be taken in addition to the upper-level GST and Advanced Study courses already required, and it may not also count for any other course in the student's program of study. Advisors may assist students in selection of an appropriate course which should enhance the subject matter of the student's concentration.

- CIS 216 Programming in a Visual Environment
- CIS 301 Database Management and Analysis
- CIS 465 MIS Strategies for e-Business
- CIS 325 Web Development **or**
- CIS 330 Systems Analysis and Design

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A minor in Business Administration requires the following courses:

- BUS 304 Introduction to Marketing 4 sh **or**
- BUS 311 Principles of Marketing (prerequisite BUS 202)
- BUS 303 Introduction to Managing 4 sh **or**
- BUS 323 Principles of Management and Organizational Behavior (prerequisite BUS 202)
- ACC 201 Principles of Financial Accounting 4 sh
- FIN 303 Introduction to Finance 4 sh
- ECO 201 Principles of Economics 4 sh

TOTAL

20 sh

BUS 202. BUSINESS COMMUNICATIONS**4 sh**

In addition to studying the theory and principles of good oral and written communications, students practice making oral presentations and writing business reports, letters and memoranda. Prerequisites: ENG 110 and sophomore standing. Offered fall and spring.

BUS 221. LEGAL ENVIRONMENT OF BUSINESS**2 sh**

A number of laws influence business decisions and activities. Matters relating to competitive conduct, consumer protection, accounting and financial reporting, public communications and the natural environment are regulated by widely known federal agencies. Most states also have counterpart commissions that set additional standards and rules for business regulation. U.S. businesses enjoy a remarkably free legal environment compared to many other developed markets, and certainly more free than centrally controlled economic systems. This course explores these aspects of the U.S. business scene, with comparisons across states and other nations where appropriate. Its focus is on the legal environment, not on the legal processes, torts or case law. Its appropriate audience is the business student who needs a broad, general understanding of how we govern ourselves in the marketplace. Offered fall and spring.

BUS 303. INTRODUCTION TO MANAGING**4 sh**

For nonmajors and business administration minors, this introductory course examines universal business processes such as goal-setting, planning, decision-making, motivation, human resource management and control which are utilized by both not-for-profit and government organizations. Sophomore standing required. No credit for both BUS 303 and BUS 323. Offered fall, winter and spring.

BUS 304. INTRODUCTION TO MARKETING**4 sh**

For nonmajors and business administration minors, this introductory course examines marketing principles which are applied by all organizations. Sophomore standing required. No credit for both BUS 304 and BUS 311. Offered fall, winter and spring.

BUS 311. PRINCIPLES OF MARKETING**4 sh****76**

This study of the marketing and distribution of goods and services includes buyer behavior, the marketing functions, commodity and industrial markets, merchandising considerations, price policies and governmental regulation of competition. Prerequisites: ECO 201 and BUS 202. Sophomore standing required. No credit for both BUS 304 and BUS 311. Offered fall and spring.

BUS 323. PRINCIPLES OF MANAGEMENT AND ORGANIZATIONAL BEHAVIOR**4 sh**

This course will prepare the student for the challenges of management and leadership in the dynamic new workplace of the 21st century. The course examines the central role of management in the efficient and effective production of goods and services. Students will learn how strategic and operational planning, job and organizational structure design and human behavior affect operations in manufacturing and service industries. Organizational behavior topics include leadership and ethics, motivation and rewards, communication and teams, and teamwork. The global dimensions of management are also emphasized. Prerequisite: BUS 202. Sophomore standing required. No credit for both BUS 303 and BUS 323. Offered fall and spring.

BUS 326. OPERATIONS MANAGEMENT**4 sh**

As a primary business function, operations plays a vital role in achieving a company's strategic plans. Since the operations function produces the goods and services, it typically involves the greatest portion of the company's people and capital assets. Customer service, product/service delivery, product/service quality and overall organizational effectiveness depend on excellence in operations. This course covers manufacturing and service process design, planning and control. Operations strategy, demand forecasting, supply chain management, facility location and design, e-commerce, capacity planning, inventory systems, scheduling and quality control are topics included in the course.

Prerequisites: ECO 203, CIS 211, BUS 323 or 303. Sophomore standing required.
Offered fall and spring.

BUS 365. BUSINESS ADMINISTRATION APPLICATIONS 4 sh

Topics vary yearly in the study of applications of business administration principles and theories in various business situations. Sophomore standing required.

BUS 366. FIELD EXPERIENCE IN BUSINESS 4 sh

This course revolves around visits to diverse local businesses and analyses of the businesses visited. Prerequisite: permission of instructor. Sophomore standing required.

BUS 413. INTEGRATED MARKETING COMMUNICATIONS 4 sh

This course focuses on the management of the communication aspects of marketing strategy. Elements of advertising, personal selling, sales promotion, direct marketing and public relations are included. The study of marketing communications includes a review of concepts from economics, behavioral sciences and social sciences, which play a role in creating, executing and evaluating promotional programs. Topics include setting communications objectives and budgets, media planning and creative strategy, all in the context of an integrated communication program. Emphasis will be placed on appreciating the scope, strengths and weaknesses of these marketing communication tools, and particularly on how they can and should be used together. Prerequisite: BUS 311.

Offered spring.

BUS 414. MARKETING RESEARCH 4 sh

Students apply various research methods used in business to gather and analyze marketing data. Possible effects and implications of the analyses are discussed in terms of the marketing and decision-making processes of businesses. Prerequisites: BUS 311 and ECO 203. Offered spring.

BUS 415. CONSUMER BEHAVIOR 4 sh

This course for the marketing concentration focuses on the application of the behavioral sciences to understand consumer behavior. Emphasis is placed on developing an appreciation for the scope of the topic, understanding the essentials underlying consumer behavior and developing an ability to relate such understanding to important issues faced by marketing practitioners. Traditional research-oriented topics include perception, memory, affect, learning, persuasion, motivation, behavioral decision-theory and environmental (e.g., social and cultural) influences. All topic presentations will include a discussion of practitioner-oriented managerial implications. Prerequisite: BUS 311. Offered fall.

BUS 416. GLOBAL MARKETING 4 sh

This course for the marketing concentration is designed to explore the scope of global marketing. The course examines the impact the global environment has upon marketing decisions and strategy formulations. Through analyses of different types of markets, students will develop an understanding and appreciation of how the world is "shrinking" and the influence this has on U.S. businesses, individuals, households and institutions. Students will monitor the global environment and report their findings on specific regions of the world to the class. The intent is to make students more aware of the global environment and its impact on U.S. businesses. Prerequisite: BUS 311. Offered fall.

BUS 417. BUSINESS-TO-BUSINESS MARKETING 4 sh

This course for the marketing concentration focuses on exploring and understanding business-to-business (B2B) marketing. The study of business-to-business marketing provides an opportunity for students to synthesize their knowledge of B2B or industrial marketing with other, highly-related business disciplines (accounting, finance and management) in order to move products through the supply chain from producer to the ultimate consumer. Business-to-business relationships, interfaces, strategies, problems and

performance are explored through the case method. Prerequisite: BUS 311. Offered spring.

BUS 419. SALES MANAGEMENT

4 sh

The sales management course is an analysis of professional selling practices with emphasis on the selling process and sales management, including the development of territories, determining potentials and forecasts and setting sales quotas. Prerequisite: BUS 311. Offered fall.

BUS 424. RESPONSIBLE LEADERSHIP

4 sh

This course addresses the characteristics, behaviors and responsibilities required of contemporary organizational leaders. While focusing on the traditional topics (individual differences and traits of leaders, behaviors of leaders, role of power, types and styles of leadership and theories of motivation), the student will also be introduced to some nontraditional approaches (nontraditional metaphors, leadership as an art and individual differences of followers and followership) to understanding leaders and leadership. The responsibilities of leadership will be specifically addressed in relationship to the concepts of organizational success and effectiveness, social responsibility and ethical decision-making. Prerequisite: BUS 323. Offered fall and spring.

BUS 425. HUMAN RESOURCE MANAGEMENT

4 sh

Effective human resource management is critical to the long-term value of an organization and ultimately to its success and survival. All aspects of human resource management — including how organizations interact with the environment; acquire, develop and compensate human resources; design and measure work — can help organizations meet their competitive challenges and create value. This course looks at the role of strategic human resource planning, recruitment and selection, performance management, developing and compensating human resources, the legal environment and employee relations, collective bargaining and labor relations, using technology to increase HRM effectiveness and global issues in HRM. Prerequisite: BUS 323. Offered fall.

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BUS 427. ORGANIZATIONAL IMPROVEMENT

4 sh

This course will introduce the students to material which will cover basic productivity improvement techniques, application of these techniques in his/her work place, teaching coworkers these techniques, leading work teams in problem-solving activities and managing an organizational productivity improvement program. Prerequisite: BUS 323. Offered spring.

BUS 428. ADVANCED ORGANIZATIONAL BEHAVIOR

4 sh

This course addresses the impact of individual, group and organizational influences in human behavior within organizations. Building on the organizational behavior topics introduced in BUS 323, the focus of this course is on acquiring in-depth knowledge and developing interpersonal skills through the study and application of theories and concepts related to understanding and predicting human behavior in organizations. Personality, perception, job design and goal-setting, appraisal, group dynamics, decision-making, cooperation and conflict, organizational structure and culture, power and organizational politics, organizational learning, innovation and change management, and organizational development are topics included in the course. Prerequisite: BUS 323. Offered fall and spring.

BUS 429. ENTREPRENEURSHIP/INTRAPRENEURSHIP

4 sh

This course addresses how to go into business and several of the unique problems and circumstances encountered in establishing and operating a small business. Emphasis is also placed on the role of entrepreneurship in large firms through the study of "intrapreneurship." Special emphasis focuses on why small businesses fail and what entrepreneurs can do to minimize the influence of these forces. Family-owned business management is included as one type of small business covered. Prerequisite: BUS 323.

BUS 430. INTERNATIONAL BUSINESS MANAGEMENT**4 sh**

This course covers business management from the perspective of the current global business environment. Students examine the overall nature of international business, the foreign environments that international businesses face and the unique situations associated with doing business across international borders. Prerequisite: BUS 323. Offered fall and spring.

BUS 465. BUSINESS POLICY**4 sh**

This capstone course integrates students' experiences and previous study through case studies and simulated business decision exercises. Prerequisites: BUS 202, 311, 323; BUS 326 for Business Administration majors or ACC 336 for Accounting majors; ECO 301 (Business Administration majors only); FIN 343; and senior status. Offered fall and spring.

BUS 471. SEMINAR: SPECIAL TOPICS IN MANAGEMENT**4 sh**

This advanced study consists of readings and discussion of special topics and involves participation by students, faculty and other resource persons.

BUS 472. SEMINAR: SPECIAL TOPICS IN INTERNATIONAL BUSINESS**4 sh**

This advanced study consists of readings and discussion of special topics and involves participation by students, faculty and other resource persons.

BUS 481. INTERNSHIP IN BUSINESS ADMINISTRATION**1-8 sh**

An internship experience offers the student valuable experience in business and management. Appropriate placement must be arranged by the student with the help and support of business administration faculty and other appropriate resources.

BUS 491. INDEPENDENT STUDY**1-4 sh****BUS 499. UNDERGRADUATE RESEARCH IN BUSINESS ADMINISTRATION****1-4 sh**

Students may engage in an undergraduate research study in collaboration with a faculty sponsor.

79**Chemistry**

Chair, Department of Chemistry: Professor Grimley

Professors: Danieley, Gooch

Associate Professors: Sienerth, Wright

Assistant Professors: Karty, Ponton, Reilly

Adjuncts: Bernhardt, Bowling, Chandler

Science Lab Manager: Weller

The Department of Chemistry offers courses of study leading to either a Bachelor of Science degree (61-65 semester hours), Bachelor of Arts degree (44-48 semester hours) or a minor in Chemistry (20-24 semester hours). Students satisfying the requirements of the Bachelor of Science degree will be certified by the American Chemical Society.

Students who major in chemistry are qualified for many pursuits. They may choose to work in the chemical industry, continue advanced studies in chemistry, take professional training in medicine, dentistry or other health-related fields, prepare to teach at the secondary level or pursue opportunities in related fields (environmental science, forensics, business and industry).

Elon's chemistry program provides the opportunity for students to engage with faculty in undergraduate research and to gain direct experience with new instrumentation using today's state-of-the-art technology. The results of the research projects are presented at local, regional and national scientific meetings.

Another key feature of the program is the introduction and use of instrumentation in the first-year general chemistry sequence and its continued emphasis throughout the chemistry curriculum. Student participation in assisting in laboratory and recitation instruction is strongly advised and supported.

A Bachelor of Science (ACS certified) degree in Chemistry requires the following courses:

CHM 111	General Chemistry I	3 sh
CHM 113	General Chemistry I Lab	1 sh
CHM 112	General Chemistry II	3 sh
CHM 114	General Chemistry II Lab	1 sh

or (in lieu of CHM 111, 113, 112, 114)

CHM 115	Advanced General Chemistry (3 sh)	
CHM 116	Advanced General Chemistry Lab (1 sh)	
CHM 205	Inorganic Chemistry	4 sh
CHM 211	Organic Chemistry I	3 sh
CHM 213	Organic Chemistry I Lab	1 sh
CHM 212	Organic Chemistry II	3 sh
CHM 214	Organic Chemistry II Lab	1 sh
CHM 125	Chemical Literature	1 sh
CHM 311	Quantitative Analysis	4 sh
CHM 321	Instrumental Analysis	4 sh
CHM 332	Physical Chemistry I	4 sh
CHM 334	Physical Chemistry II	4 sh
CHM 351	Biochemistry	3 sh
CHM 431	Advanced Inorganic Chemistry	4 sh
CHM 432	Physical Organic Chemistry	2 sh
CHM 461	Seminar	1 sh
CHM 499	Chemistry Research	2 sh
MTH 121	Calculus & Analytic Geometry I	4 sh
MTH 221	Calculus & Analytic Geometry II	4 sh
PHY 113	General Physics I with Calculus	4 sh
PHY 114	General Physics II with Calculus	4 sh

TOTAL		61-65 sh
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A Bachelor of Arts degree in Chemistry requires the following courses:

CHM 111	General Chemistry I	3 sh
CHM 113	General Chemistry I Lab	1 sh
CHM 112	General Chemistry II	3 sh
CHM 114	General Chemistry II Lab	1 sh

or (in lieu of CHM 111, 113, 112, 114)

CHM 115	Advanced General Chemistry (3 sh)	
CHM 116	Advanced General Chemistry Lab (1 sh)	
CHM 205	Inorganic Chemistry	4 sh
CHM 211	Organic Chemistry I	3 sh
CHM 213	Organic Chemistry I Lab	1 sh

CHM 212	Organic Chemistry II	3 sh
CHM 214	Organic Chemistry II Lab	1 sh
CHM 125	Chemical Literature	1 sh
CHM 311	Quantitative Analysis	4 sh
CHM 332	Physical Chemistry I	4 sh
CHM 461	Seminar	1 sh
MTH 121	Calculus & Analytic Geometry I	4 sh
PHY 111	General Physics I	4 sh
PHY 112	General Physics II	4 sh
(Physics 113 and 114 may be substituted for Physics 111 and 112.)		
Six semester hours from chemistry (at least 4 sh at the 300-400 level)		6 sh
TOTAL		44-48 sh

A minor in Chemistry requires the following courses:

CHM 111	General Chemistry I	3 sh
CHM 113	General Chemistry I Lab	1 sh
CHM 112	General Chemistry II	3 sh
CHM 114	General Chemistry II Lab	1 sh

or (in lieu of CHM 111, 113, 112, 114)

CHM 115	Advanced General Chemistry (3 sh)	
CHM 116	Advanced General Chemistry II Lab (1 sh)	
CHM 211	Organic Chemistry I	3 sh
CHM 213	Organic Chemistry I Lab	1 sh
CHM 212	Organic Chemistry II	3 sh
CHM 214	Organic Chemistry II Lab	1 sh

Eight additional hours selected from: 8 sh

- CHM 205 Inorganic Chemistry (4 sh)
- CHM 305 Environmental Chemistry (4 sh)
- CHM 311 Quantitative Analysis (4 sh)
- CHM 321 Instrumental Analysis (4 sh)
- CHM 351 Biochemistry (3 sh) and
- CHM 352 Biochemistry Lab (1 sh)
- CHM 471-79 Special Topics in Chemistry (2-4 sh)

TOTAL	20-24 sh
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A Bachelor of Arts Degree in Chemistry/Chemical Engineering: See requirements listed in Engineering.

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CHM 101. BASIC CONCEPTS IN CHEMISTRY 3 sh

The course is designed to meet the math/science general studies requirement for non-science majors. The material covered includes atomic structure, chemical changes, descriptive chemistry of selected elements, introduction to organic chemistry and how chemistry applies to consumer products and the environment. No credit given to students with prior credit for CHM 111. No credit for major/minor. Corequisite: CHM 102. Offered fall and spring.

CHM 102. BASIC CONCEPTS IN CHEMISTRY LABORATORY 1 sh

Laboratory exercises are based upon selected foundational concepts covered in CHM

101. No credit for students with prior credit for CHM 113. No credit for major/minor. Corequisite: CHM 101. Offered fall and spring.

CHM 111. GENERAL CHEMISTRY I

3 sh

This course introduces fundamental principles of chemistry with special emphasis on developing skills in quantitative reasoning. Topics include stoichiometry, nomenclature, gases, atomic structure and periodicity, theories of chemical binding and thermochemistry. Prerequisite: High school chemistry. Corequisites: MTH 111 or higher and CHM 113. Offered fall and spring.

CHM 112. GENERAL CHEMISTRY II

3 sh

The study of fundamental chemical principles continues with chemical kinetics, liquid/solid states, chemical equilibrium (gas phase and acid/base), thermodynamics and electrochemistry. Prerequisite: CHM 111. Corequisite: CHM 114. Offered spring.

CHM 113. GENERAL CHEMISTRY I LABORATORY

1 sh

The experiments offered familiarize students with basic laboratory techniques and complement topics discussed in CHM 111. Corequisite: CHM 111. Offered fall and spring.

CHM 114. GENERAL CHEMISTRY II LABORATORY

1 sh

This course involves laboratory applications of concepts and principles discussed in CHM 112. Prerequisites: CHM 111, 113. Corequisite: CHM 112. Offered spring and fall.

CHM 115. ADVANCED GENERAL CHEMISTRY

3 sh

This course explores fundamental principles of chemistry with an emphasis on understanding chemical concepts and quantitative reasoning. It consists of a brief review of stoichiometry, nomenclature, gases, thermochemistry, atomic structure and periodicity and more extensive coverage of chemical kinetics, electrochemistry, equilibrium systems, liquid/solid states and nuclear chemistry. This course is available for students who scored 4 or 5 on the AP chemistry exam and for students with exemplary scores on the Toledo exam. Prerequisites: High school chemistry. Corequisite: CHM 116. Offered fall.

CHM 116. ADVANCED GENERAL CHEMISTRY LAB

1 sh

This course involves laboratory applications of concepts and principles discussed in CHM 115 including mass spectrometry, atomic spectroscopy, molecular modeling, stoichiometry, thermochemistry, chemical kinetics, electrochemistry, equilibrium systems and liquid and solid states. Corequisite: CHM 115. Offered fall (for CHM 115 only).

CHM 125. CHEMICAL LITERATURE

1 sh

This writing-intensive course is centered around an in-depth study of the different ways in which new discoveries in chemistry are communicated to members of the profession. Topics include primary and secondary sources: journals, monographs, patents, communications and reviews as well as foremost references such as *Chemical Abstracts*, *The Ring Index* and *Science Citation Index*. Both classical and online search methods will be integrated into the required writing assignments. Prerequisite: CHM 211 or permission of instructor.

CHM 205. INORGANIC CHEMISTRY

4 sh

This course will be an introduction to the field of inorganic chemistry with emphasis on nuclear chemistry, classical coordination chemistry, solid state chemistry, the periodic relationships of the elements and chemical bonding, the origin of the elements and the chemistry of hydrogen and oxygen. It will also serve as an introduction to the use of physical methods of structure determination of inorganic compounds by magnetic and spectral techniques including magnetic susceptibility, UV/VIS and IR spectroscopies, NMR spectrometry and mass spectrometry. Three hours lecture, three laboratory hours per week. Prerequisites: CHM 112/114 or CHM 115/116. Offered spring.

CHM 211. ORGANIC CHEMISTRY I 3 sh

Organic Chemistry introduces students to the chemistry of carbon compounds, including nomenclature, the influence of structure on physical/chemical properties, reaction mechanisms, stereochemistry, conformational analysis, synthesis and characteristic reactions of different organic compounds. Prerequisites: CHM 112/114 or 115/116. Corequisite: CHM 213. Offered fall.

CHM 212. ORGANIC CHEMISTRY II 3 sh

Continuing the study of organic chemistry, this course emphasizes compounds containing oxygen or nitrogen and culminates with a survey of lipids, carbohydrates and proteins. Prerequisites: CHM 211/213. Corequisite: CHM 214. Offered spring.

CHM 213. ORGANIC CHEMISTRY I LABORATORY 1 sh

Laboratory work includes determination of physical properties, separation of mixtures, some structure identification and synthesis of selected organic compounds. Prerequisites: CHM 112/114 or 115/116. Corequisite: CHM 211. Offered fall.

CHM 214. ORGANIC CHEMISTRY II LABORATORY 1 sh

Procedures include microscale synthetic methods, molecular modeling via IBM-PC and qualitative organic analysis. Prerequisites: CHM 211, 213. Corequisite: CHM 212. Offered spring.

CHM 305. ENVIRONMENTAL CHEMISTRY 4 sh

Environmental Chemistry provides a survey of chemical topics applying to selected pollutants in the air, water and soil. Such topics include production and diffusion, photochemical processes, techniques for analysis, acid-base and redox chemistry, environmental and biological effects. Laboratory work includes acid/base and buffer chemistry, analysis of heavy metal pollutants sampling techniques and resistance of selected materials to certain pollutants. No credit toward B.S. degree. Prerequisites: CHM 211/213. Offered spring of alternate years.

CHM 311. QUANTITATIVE ANALYSIS 4 sh

This course introduces chemical methods of quantitative analysis, including classical, volumetric and selected instrumental methods, a discussion of error and uncertainty in measurements, and elementary statistics. Discussion also covers the underlying physical and chemical theories and laws with emphasis on chemical equilibrium. Prerequisites: CHM 111-114 or CHM 115/116. Offered fall.

CHM 321. INSTRUMENTAL ANALYSIS 4 sh

Instrumental Analysis offers theory and practice of instrumental methods, with emphasis placed on spectroscopic (UV/VIS, IR, NMR, AA) and mass spectrometric methods of analysis. Prerequisites: CHM 311, and CHM 211-214. Offered spring.

CHM 332. PHYSICAL CHEMISTRY I 4 sh

The mathematical development of the physical principles in chemistry is explored. Topics include development and application of the laws of thermodynamics, equations of states, kinetic molecular theory, elementary electrochemistry and equilibria. Laboratory experiments are designed to complement lectures and include studies of phase relationships, calorimetry and gas laws. Three hours lecture and three hours lab per week. Prerequisites: CHM 111-114 or CHM 115/116; MTH 121; PHY 112 or 114. Offered fall.

CHM 334. PHYSICAL CHEMISTRY II 4 sh

The principles of quantum mechanics are developed and illustrated by use of simple systems. Spectroscopic techniques are investigated as tools for probing structure and properties of molecules. Other topics include kinetics and group theory. Laboratory experiments are designed to complement lectures and include multiple techniques to investigate reaction kinetics, laser spectroscopy, UV-VIS spectroscopy and computational techniques. Three hours lecture, three laboratory hours per week. Prerequisites: CHM 332, MTH 221, PHY 114. Offered spring.

CHM 351. BIOCHEMISTRY**3 sh**

This is a survey of biochemistry as it relates to the physiology of organisms. Topics include biochemical methodology, buffers, proteins (structure, function and synthesis), enzymes, bioenergetics, anabolism and catabolism of carbohydrates and lipids and metabolic regulation. Prerequisites: CHM 211-214. (CHM 351 is cross-listed with BIO 351.) Offered fall.

CHM 352. BIOCHEMISTRY LABORATORY**1 sh**

This laboratory investigates the rates of enzyme-catalyzed reactions, including the effect of enzyme inhibitors; the isolation/purification/analysis of proteins, lipids and carbohydrates; and some analytical techniques used in clinical chemistry laboratories. Techniques employed include affinity chromatography, electrophoresis, gas chromatography, UV-visible spectrometry and polarimetry. Prerequisites: CHM 211-214. Corequisite: CHM 351. (CHM 352 is cross-listed with BIO 352.) Offered fall.

CHM 431. ADVANCED INORGANIC CHEMISTRY**4 sh**

This course will begin with an accelerated review of the history of inorganic chemistry, atomic structure and simple bond theory. It will then provide an in-depth introduction into symmetry and group theory with applications to the description of chemical bonding in molecular orbital theory. Acid-Base and Donor-Acceptor Chemistry and the descriptive chemistry of the main group elements will be followed by an in-depth survey of organometallic chemistry. The continued application of physical methods of structure determination of inorganic compounds by magnetic and spectral techniques including magnetic susceptibility, UV/VIS and IR spectroscopies and NMR spectrometry will be presented throughout the course. Prerequisites: CHM 205, 211-214 and CHM 334. Offered fall.

CHM 432. PHYSICAL ORGANIC CHEMISTRY**2 sh**

The study and applications of Hückel molecular orbital theory toward the understanding of the mechanisms of selected chemical reactions. The focus will be on empirical methods to derive mechanisms including linear free energy relationships and reaction kinetics. Techniques to be covered include photoelectron spectroscopy (PES) and computational chemistry (CC). Prerequisite: CHM 334. Offered spring.

CHM 461. SEMINAR**1 sh**

Students make presentations after they do individual library research. Student seminars are supplemented with seminars by practicing scientists. All chemistry-oriented students are encouraged to attend. Credit for junior and senior majors only or by permission of the instructor. Completion of this course satisfies the oral competency requirement for the B.S. and B.A. major in Chemistry. Course is two semesters in length with 0.5 sh each semester. Students must take both semesters. Offered fall and spring.

CHM 471-479. SPECIAL TOPICS IN CHEMISTRY**2-4 sh**

Advanced topics offered to meet the needs and interests of students include methods in forensic and medicinal chemistry, nuclear chemistry, nuclear magnetic resonance spectrometry, advanced organic or polymer chemistry. Prerequisites: CHM 212/214.

CHM 481. INTERNSHIP**1-4 sh**

Students gain advanced-level work experience in a chemical field. Internships are offered on an individual basis when suitable opportunities can be arranged. Prerequisite: permission of department.

CHM 491. INDEPENDENT STUDIES**1-4 sh****CHM 499. RESEARCH****1-3 sh**

In collaboration with a chemistry faculty member, students undertake experimental or theoretical investigations. Prerequisite: Approval of department chair. Offered fall, winter, spring.

Classical Studies

Coordinator: Professor Gill

Classical Studies is an interdisciplinary program of studies in the languages, history, culture and heritage of the ancient and early modern world. This program gives students an opportunity for concentrated study of “Classical” ideas and practices, which form an important part of Western civilization. In addition, the program examines the ways that these ideas and practices have influenced, and been modified by, later generations. A minor in Classical Studies can serve as a valuable complement to many fields, providing depth and context for a student’s other courses, encouraging analytical study of primary sources and allowing the pleasure of reading some of Western civilization’s greatest works.

A minor in Classical Studies requires the following:

Twenty semester hours taken from the list below and/or from other approved courses. At least eight of these semester hours must be at or above the 300-level. Courses must be chosen from at least three departments.

Acceptable courses in Classical Studies include:

ART 221	Art and History: Prehistory to the Present	4 sh
ART 343	Renaissance Art History	4 sh
CLA 110	Introduction to Classical Studies	4 sh
ENG 221	British Literature I	4 sh
ENG 321	Classical Literature	4 sh
ENG 322	Medieval Literature	4 sh
ENG 323	Renaissance Literature	4 sh
FNA 265	Studies in Italy/ELR	4 sh
FNA 313	British Art and Architecture	4 sh
GRK 110	Beginning Greek	4 sh
GRK 210	Intermediate Greek	4 sh
GRK 310	Advanced Greek	4 sh
HST 111	Europe and the Mediterranean World to 1660	4 sh
HST 323	Making of the English Nation to c.1660	4 sh
LAT 121	Beginning Latin I	4 sh
LAT 122	Beginning Latin II	4 sh
MUS 315	The Music of Ancient Times through Mozart	4 sh
PHL 331	Ancient Philosophy	4 sh
PHL 332	Medieval Philosophy	4 sh
PHL 355	Philosophy of Religion	4 sh
POL 300	Introduction to Political Thought	4 sh
REL 111	The Old Testament Story	4 sh
REL 112	Introduction to the New Testament	4 sh
REL 321	Unearthing the Bible	4 sh
REL 322	Old Testament Prophets	4 sh
REL 324	Book of Job	4 sh

REL 325	Revelation and other Apocalyptic Literature	4 sh
REL 326	Life and Thoughts of Paul	4 sh
REL 329	Jesus and the Gospels	4 sh
REL 355	Philosophy of Religion	4 sh
THE 301	Theatre History and Literature I	4 sh
TOTAL		20 sh

In addition to these catalog courses, occasional courses with special topics in Classical Studies will be offered. Examples include Hebrew 110, 210, 310; HST/REL 371, The Ancient World; FRE 371 and SPN 371, Special Topics, as appropriate.

CLA 110. INTRODUCTION TO CLASSICAL STUDIES

4 sh

This course gives the student a chance to find out more about the Classical elements that have shaped Western civilization. The course looks at the literature, art and architecture of the ancient Greek and Roman worlds. It studies how our Classical heritage has affected later ages and cultures, including our own. Offered in fall semesters.

Communications

See Journalism and Communications

Computing Sciences

Chair: Associate Professor Powell

Associate Professors: Heinrichs, Schuette, B. Taylor

Assistant Professors: Conklin, Hightower, Pollard, Yap

Instructor: Hollingsworth

Senior Lecturer: Kleckner

Adjunct: Bryan

The Department of Computing Sciences at Elon University offers A.B. and B.S. degrees in Computer Science, A.B. and B.S. degrees in Computer Information Systems, and minors in Computer Science and Computer Information Systems. A concentration area in Management Information Systems (for majors in Business Administration) and minors in Multimedia Authoring or Geographical Information Systems are also available options.

The discipline called Computer Science emphasizes problem solving based upon mathematical logic, the analysis of alternative solutions, the use of the scientific method of hypothesis development and testing, and the link between principles, creativity and implementation techniques. The experiences, challenges and discipline of computer science translate well into other areas and interests. The discipline is constantly changing; the student must be able to communicate well and learn new concepts throughout life. The Computer Science program at Elon is a rigorous one emphasizing the application and theory of computation. Students study programming languages, operating systems, algorithm analysis, artificial intelligence, game programming and parallel and distributed problem solving using computer technology.

The Computer Information Systems discipline centers on the development of systems that will improve the performance of people in organizations. Information systems are vital to problem identification, analysis and decision making. These skills are integral parts of many fields of study. Students in information systems apply problem-solving techniques and programming skills to the design, implementation and maintenance of these information systems. Computer Information Systems at Elon is a hands-on program that gives the stu-

dent a solid foundation in information systems, including knowledge and skills about networks, Web development, database development, systems analysis, application development and project management.

Computing Sciences students at Elon have excellent access to both faculty and equipment including a wide array of computer hardware and software. The latest versions of over 50 software development tools are updated twice annually. Every computer is replaced every three years. Opportunities for various work and independent learning experiences that complement classroom learning are available. Other opportunities for involvement include the student chapter of the Association for Computing Machinery (ACM), participation in regional and local programming contests and independent study and research. Graduates pursue employment in many areas of industry, business, education and government as well as continuing study at the graduate level.

A Bachelor of Arts degree in Computer Science requires the following courses:

CSC 130	Introduction to Computer Science	4 sh
CSC 230	Algorithm Development	4 sh
CSC 331	Algorithm Analysis	4 sh
CSC 335	Programming Languages	4 sh
CSC 342	Computer Organization and Architecture	4 sh
CSC 351	Theory of Computation	4 sh
CSC 441	Operating Systems and Networking	4 sh
CSC 462	Software Development/Capstone	4 sh
MTH 206	Discrete Structures	4 sh
MTH 221	Calculus and Analytic Geometry II	4 sh
Select one course beyond core math requirement		4 sh

Probability/Statistics: if core math requirement was MTH 121, then
MTH 112 General Statistics or a probability and/or statistics course

or

Quantitative Analysis: if core math requirement was MTH 112, then
MTH 121 Calculus and Analytic Geometry I

Two courses from the following: 8 sh

CSC 410	Artificial Intelligence
CSC 415	Numerical Analysis
CSC 420	Game Programming and Computer Graphics
CSC 430	Advanced Programming Concepts
CSC 431	Parallel and Distributed Computation
CSC 499	Research
CSC 300-400 level elective	

TOTAL	52 sh
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A Bachelor of Science degree in Computer Science requires the following courses:

CSC 130	Introduction to Computer Science	4 sh
CSC 230	Algorithm Development	4 sh
CSC 331	Algorithm Analysis	4 sh
CSC 335	Programming Languages	4 sh
CSC 342	Computer Organization and Architecture	4 sh

CSC 351	Theory of Computation	4 sh
CSC 441	Operating Systems and Networking	4 sh
CSC 462	Software Development/Capstone	4 sh
MTH 206	Discrete Structures	4 sh
MTH 221	Calculus and Analytic Geometry II	4 sh
Select one course beyond core math requirement		4 sh
Probability/Statistics: if core math requirement was MTH 121, then MTH 112 General Statistics or a probability and/or statistics course		
or		
Quantitative Analysis: if core math requirement was MTH 112, then MTH 121 Calculus and Analytic Geometry I		
Three courses from the following:		12 sh
CSC 410	Artificial Intelligence	
CSC 415	Numerical Analysis	
CSC 420	Game Programming and Computer Graphics	
CSC 430	Advanced Programming Concepts	
CSC 431	Parallel and Distributed Computation	
CSC 499	Research	
CSC 300-400 level elective		
Either:		8 sh
CHM 111, 112, 113, 114, or		
PHY 113, 114, 117, 118, or		
BIO 111, 112, 113, 114		
TOTAL		64 sh

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A Bachelor of Arts in Computer Information Systems requires the following courses:

CIS 211	Management Information Systems	4 sh
CIS 216	Programming in a Visual Environment	4 sh
CIS 245	Hardware, Systems Software and Communications	4 sh
CIS 301	Database Management and Analysis	4 sh
CIS 325	Web Development	4 sh
CIS 330	Systems Analysis and Design	4 sh
CIS 345	Networks and Telecommunications	4 sh
CIS 430	Project Implementation and Management	4 sh
CIS 450	Seminar in Information Systems (capstone)	4 sh
PHL 115	Ethical Practice	4 sh
MTH 206	Discrete Structures	4 sh
Select one course beyond core math requirement		4 sh
Probability/Statistics: if core math requirement was MTH 121, then MTH 112 General Statistics or a probability and/or statistics course		
or		
Quantitative Analysis: if core math requirement was MTH 112, then MTH 116 Applied Mathematics with Calculus or MTH 121 Calculus and Analytic Geometry I		
Total		48 sh

A Bachelor of Science in Computer Information Systems requires the following courses:

CIS 211	Management Information Systems	4 sh
CIS 216	Programming in a Visual Environment	4 sh
CIS 245	Hardware, Systems Software and Communications	4 sh
CIS 301	Database Management and Analysis	4 sh
CIS 325	Web Development	4 sh
CIS 330	Systems Analysis and Design	4 sh
CIS 345	Networks and Telecommunications	4 sh
CIS 430	Project Implementation and Management	4 sh
CIS 450	Seminar in Information Systems (capstone)	4 sh
PHL 115	Ethical Practice	4 sh
MTH 206	Discrete Structures	4 sh
Select one course beyond core math requirement		4 sh

Probability/Statistics: if core math requirement was MTH 121 then
MTH 112 General Statistics or a probability and/or statistics course

or

Quantitative Analysis: if core math requirement was MTH 112 then
MTH 116 Applied Mathematics with Calculus **or**
MTH 121 Calculus and Analytic Geometry I

Choose one of the following Information Systems Environments: 16 sh

Business Option:

Select any four courses from the Business Administration minor

or

Biology Option:

BIO 111 and BIO 113; BIO 112 and BIO 114

Select 8 hours taken from BIO 200, 300 or 400 level courses of interest

or

Criminal Justice Studies Option:

Select at least one course from CJS minor core: PSY 357,
SOC 355 or HUS 359

Select 12 hours from remaining CJS minor core or other available electives

Total 64 sh

A minor in Computer Science requires the following:

CSC 130	Introduction to Computer Science	4 sh
CSC 230	Algorithm Development	4 sh
Eight semester hours of 300-400 level Computer Science (CSC) courses		8 sh
One additional course from CSC or CIS at the 200 level or above		4 sh
Total		20 sh

A minor in Computer Information Systems requires the following:

CIS 211	Management Information Systems	4 sh
CIS 216	Programming in a Visual Environment	4 sh

CIS 245	Hardware, Systems Software and Communications	4 sh
CIS 301	Database Management and Analysis	4 sh
One course from the following:		4 sh
CIS 325	Web Development	
CIS 330	Systems Analysis and Design	
CIS 345	Networks and Telecommunications	
Total		20 sh

Multimedia Authoring Minor: See Multimedia Authoring

Geographic Information Systems Minor: See Geographic Information Systems

Concentration in Management Information Systems: See Business Administration

Computer Information Systems

CIS 112. PROBLEM SOLVING WITH SPREADSHEET APPLICATIONS 2 sh

This course involves projects requiring quantitative reasoning. Microsoft Excel is used for what-if analysis and graphical presentation of data. Fundamental functions, worksheet database features and the use of Excel to create static and dynamic Web pages are covered. Prerequisite: None. Offered: fall and spring.

CIS 113. INTRODUCTION TO DATABASE SYSTEMS 2 sh

This course uses a personal database system (Microsoft Access) to implement projects requiring the organization, manipulation and retrieval of data. Students learn how to analyze and present their data using forms, reports and views. Basic and advanced techniques for data retrieval using elementary SQL and joining multiple tables are covered. No credit for students with CIS 211. Prerequisite: None. Offered: fall and spring.

90 CIS 114. INTRODUCTION TO WEB SITE DEVELOPMENT 2 sh

This course develops projects which require the organization and presentation of information on Internet Web sites using HTML and a high-level tool (Microsoft FrontPage). Prerequisite: None. Offered fall and spring.

CIS 211. MANAGEMENT INFORMATION SYSTEMS 4 sh

This course provides an introduction to the fundamentals of Information Systems (IS) in organizations. The course examines the role of IS in managing Customer Relationships (CRM) and introduces the fundamentals of business-process modeling using data flow diagrams and Microsoft Visio. Database Management is introduced using Microsoft Access to implement projects requiring the organization, manipulation and retrieval of data and to design and execute forms, reports and views. Elementary SQL and query construction will be covered. The strategic and global aspects of Information Systems are reviewed. Prerequisite: None. Offered: fall and spring.

CIS 216. PROGRAMMING IN A VISUAL ENVIRONMENT 4 sh

This course utilizes a programming language with a visual development environment to implement computer applications. Common visual and data objects are incorporated into projects. Code is developed to respond to events induced on these objects by users or other code. Students design and present group and individual projects. Prerequisite: core math requirement or permission of the instructor. Offered fall and spring.

CIS 220. COMPUTERS AND TEACHING 3 sh

This course is designed for students who are planning to teach at the elementary, middle or secondary level and provides an introduction to the role of technology in teaching and learning in K-12 schools. The course provides opportunities for students to develop basic skills in using technology and in selecting and applying technology

appropriately to enhance teacher productivity and student learning. Prerequisite: EDU 211. Offered fall and spring.

CIS 245. HARDWARE, SYSTEMS SOFTWARE AND COMMUNICATIONS 4 sh

This course provides the hardware/system software fundamentals for various computer/network architectures used in the design, development and implementation of contemporary information systems. Topics include system architecture for single-user, central and networked computing systems and single- and multi-user operating systems. Prerequisite: core math requirement. Offered fall.

CIS 301. DATABASE MANAGEMENT AND ANALYSIS 4 sh

This course focuses on designing, implementing and using database systems with emphasis on relational and object-relational models. Students design and deploy relational database models. Students will learn SQL and will be able to design complex reports and queries to answer business problems. This course also provides a short introduction to basic concepts of data analysis and data mining using simple descriptive statistics and SQL. Prerequisite: CIS 211 and CIS 216. Offered fall and spring.

CIS 310. INTERACTION DESIGN FOR WEB AND MULTIMEDIA 4 sh

This course provides Multimedia Authoring minors and other non-CSC: CIS majors with a complete overview of Web development, including theories of information architecture and user interface design. Students will develop Web sites of medium complexity after learning the basics of page markup and interactive Web programming. Prerequisite: None. Offered spring.

CIS 320. BUILDING INTERACTIVE WEB SITES 4 sh

This course provides Multimedia Authoring minors and other non-CSC: CIS majors with a knowledge of how to integrate database systems with a Web site. Students will develop Web sites of medium complexity after learning the basics of relational database design and three-tier Web programming. Prerequisite: None. Offered fall.

CIS 325. WEB DEVELOPMENT 4 sh

This course provides a complete overview of the Web site development process. Students will create complex, interactive Web sites. Prerequisite: CIS 301. Offered fall.

CIS 330. SYSTEMS ANALYSIS AND DESIGN 4 sh

This in-depth study of standard techniques for analyzing and designing information systems (IS) emphasizes effective written and oral communication as students examine a system using a realistic business scenario. Appropriate CASE tools (Visible Analyst and/or Visio) are used during the analysis phase. Visual Basic, Crystal Reports and Access are used during the implementation phase to create a simulated software application. Prerequisite: CIS 301. Offered fall.

CIS 345. NETWORKS AND TELECOMMUNICATIONS 4 sh

This course focuses on concepts and technologies associated with data and voice communications. Students learn about local and wide area networks, telecommunication systems, protocols, transmissions alternatives, network architectures and design. Hardware and software, client-server computing and management issues are covered. Prerequisite: CIS 245. Offered spring.

CIS 371. SPECIAL TOPICS 1-4 sh

Topics such as decision support and expert systems, data communications and networks, and design patterns are offered when demand is sufficient.

CIS 430. PROJECT IMPLEMENTATION AND MANAGEMENT 4 sh

Project teams identify a business situation requiring information systems (IS) improvement. Concepts and tools for analysis and design methodology are applied. The team carries this design through the implementation phase using appropriate CASE tools. This project is more in-depth than the simulation of CIS 330. Project documentation is

presented in the form of a user's manual. Several class presentations are required throughout the semester, culminating with the final working software application. Prerequisite: CIS 330. Corequisite: CIS 345. Offered spring.

CIS 450. SEMINAR IN INFORMATION SYSTEMS

4 sh

The capstone experience for senior CIS majors involves a close review of the conceptual and theoretical foundations of the discipline. Contemporary issues, problems and trends in CIS are discussed. Students will complete a major research paper and presentation. Prerequisites: Senior standing and at least one 300-level CIS course. Offered spring.

CIS 465. MIS STRATEGIES FOR E-BUSINESS

4 sh

The MIS capstone course explores tactical and strategic management of information systems (IS) at the business unit and enterprise level. Students examine current IS issues facing specific industries — healthcare, banking and retail and also explore management of IS on a global scale and within various countries/regions. The course involves a project focused on design and development of an e-Business software application. Prerequisite: CIS 325 or CIS 330. Offered spring.

CIS 481. INTERNSHIP IN INFORMATION SYSTEMS

1-4 sh

Advanced work experiences in computer information systems (CIS) are offered on an individual basis when suitable opportunities can be arranged. Prerequisites: permission of instructor.

CIS 491. INDEPENDENT STUDY

1-4 sh

CIS 499. RESEARCH

1-4 sh

Students engage in undergraduate research under the direction of a computing sciences faculty member. Maximum of eight semester hours total credit. Prerequisite: Eligibility as determined by the undergraduate research guidelines of Elon University and approval by the department.

Computer Science

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CSC 130. INTRODUCTION TO COMPUTER SCIENCE

4 sh

This introduction to programming and problem solving emphasizes applications from quantitative disciplines and incorporates weekly group lab experiences. Prerequisite: MTH 100 or its exemption. Offered fall and spring.

CSC 171. SPECIAL TOPICS

1-4 sh

Students study specialized pieces of software and programming languages. Prerequisite: CSC 130.

CSC 230. ALGORITHM DEVELOPMENT

4 sh

This course continues the study of the development of algorithms and provides an introduction to the analysis of time and space complexity. Topics include program correctness, recursion, elementary data structures, modularization and program structure. Prerequisite: CSC 130. Offered fall and spring.

CSC 331. ALGORITHM ANALYSIS

4 sh

Students analyze structures and appropriate algorithms for sorting, merging and searching in the contexts of mass storage devices, internal main memory and Artificial Intelligence (AI) applications. Topics include graph algorithms, dynamic storage allocation and garbage collection. Prerequisites: CSC 230 and MTH 206. Offered spring.

CSC 335. PROGRAMMING LANGUAGES

4 sh

This course provides an introduction to language definition structure, data types and structures, control structures and data flow, run-time characteristics, and lexical analysis and parsing. Programming assignments involve the use of several languages. Prerequisite: CSC 230. Offered fall.

CSC 342. COMPUTER ORGANIZATION AND ARCHITECTURE**4 sh**

Topics cover architectural levels, systems organization, digital logic, machine level, instruction formats, representation of data and computer arithmetic, assembly, linking and loading, and architectural alternatives. Prerequisite: CSC 230. Offered fall.

CSC 351. THEORY OF COMPUTATION**4 sh**

In this introduction to theoretical computer science and analysis of discrete mathematical structures which find application in computer science, topics may include predicate calculus, groups, coding theory, graphs, trees, formal languages, grammars, finite state automata, Turing machines and complexity theory. CSC 351 is cross-listed with MTH 351. Prerequisites: CSC 130, MTH 121, 206. Corequisite: CSC 230. Offered spring.

CSC 371. SPECIAL TOPICS**1-4 sh**

Topics such as genetic programming, grid computing, decision analysis, design of database management systems, robotics, simulation and high-performance computing are offered when demand is sufficient.

CSC 410. ARTIFICIAL INTELLIGENCE**4 sh**

This course is an introduction to the area of Artificial Intelligence systems. Students will learn concepts of knowledge representation, reasoning, acting under uncertainty and learning. Applications studied will include game playing, natural language and expert systems. Prerequisite: CSC 230. Offered fall alternating years.

CSC 415. NUMERICAL ANALYSIS**4 sh**

(Cross-listed with MTH 415.)

CSC 420. GAME PROGRAMMING AND COMPUTER GRAPHICS**4 sh**

A study of two major areas of programming video games: graphics and gaming. Students will learn the fundamentals of two- and three-dimensional graphic programming, including object transformations, ray tracing, collision detection and animation as well as the components of gaming, including intelligent game playing, types of games and creating engaging storylines. Prerequisite: CSC 230. Offered fall alternating years.

CSC 430. ADVANCED PROGRAMMING CONCEPTS**4 sh****93**

This course will focus on advanced programming concepts beyond the core computer science material. The material in the course continually evolves guided by the needs of students, the expertise of faculty members and technology trends. Currently, the course focuses on developing enterprise level, multi-tier distributed applications. The course explores the major technologies used by server side applications. Using a commercial application server, students will design and implement a significant programming project using either Enterprise JavaBeans or WebServices. Prerequisites: CSC 331, CSC 335. Offered spring alternating years.

CSC 431. PARALLEL AND DISTRIBUTED COMPUTATION**4 sh**

This course introduces the foundational concepts of parallel and distributed computation. Topics include SIMD (Single Instruction, Multiple Data) and MIMD (Multiple Instruction, Multiple Data) computation, vector processing, shared memory, concurrency issues, message passing, parallel algorithms and the complexity class NC. A large portion of the course will consist of project work, using MPI, PVM and/or Beowulf. Prerequisite: CSC 331, 342. Offered spring alternating years.

CSC 441. OPERATING SYSTEMS AND NETWORKING**4 sh**

Students study the fundamental concepts of operating systems and computer networks. Topics include concurrent programming, process management, memory management, resource allocation, network protocols and stacks and application-level protocols. Prerequisites: CSC 331, 342. Offered spring.

CSC 462. SOFTWARE DEVELOPMENT/CAPSTONE**4 sh**

This capstone course combines a range of topics integral to the specification, design,

implementation and testing of a medium-scale software system with the practical experience of implementing such a project as a member of a team. In addition to material on software engineering, the course includes material on human computer interaction and on professionalism and ethical responsibilities in software development. Prerequisites: CSC 331, CSC 335. Offered fall.

CSC 481. INTERNSHIP IN COMPUTER SCIENCE

1-4 sh

Advanced work experiences in Computer Science are offered on an individual basis when suitable opportunities can be arranged. Prerequisites: permission of instructor.

CSC 491. INDEPENDENT STUDY

1-4 sh

CSC 499. RESEARCH

1-4 sh

Students engage in undergraduate research under the direction of a computing sciences faculty member. Maximum of eight semester hours total credit. Prerequisite: Eligibility as determined by the undergraduate research guidelines of Elon University and approval by the department.

Cooperative Education

Director of Experiential Education: Assistant Professor P. Brumbaugh

Assistant Professors: Allison, Donathan, Kosusko, Lipe, Magee, Martin, Olive-Taylor, L. Rich

The Career Center offers courses designed to acquaint Elon students with the career decision-making process, to assist them in career exploration and prepare them for the job search.

COE 110. EXPLORING CAREERS/MAJORS

1 sh

This class assists students in exploring majors and careers. Topics include personal values and needs assessment, interest and skill inventories, and career decision-making skills. Recommended for freshmen and sophomores. Offered fall and spring in a half-semester format.

COE 310. CONDUCTING AN EFFECTIVE JOB SEARCH

1 sh

This course helps students prepare for internships, co-ops, summer jobs and permanent employment. Students develop strategies to achieve career goals, investigate critical issues in the workplace, develop a resume and a cover letter and learn how to network and interview effectively. Recommended for sophomores, juniors and seniors. Offered fall and spring in a half-semester format.

COE 381-386. CO-OP WORK EXPERIENCE

1-16 sh

This series of courses involves careful monitoring of students in either a part-time or full-time work experience. Students apply classroom theory in a job related to their major/minor/career objectives. Prerequisite: admission to the program.

The Cooperative Education Work Experience program enables qualified students to combine classroom theory with professional work experience while completing their degrees. The student may work full time or part time with an employer selected and/or approved by the university. Credit hours are based on the number of hours worked during the term — a maximum of 16 semester hours of internship/cooperative education credits may be applied to the 132 semester hours required for the A.B. and B.S. degrees. Evaluation is based on reported job performance and student reflection on that performance through papers, journals, seminars, class presentations and readings. Contact the Director of Experiential Education for more information.

ELIGIBILITY REQUIREMENTS: Sophomore, junior or senior standing; minimum 2.0 GPA; approval of faculty/Experiential Education Director. COE 310 class recommended.

Criminal Justice

Coordinator: Associate Professor McClearn

The Criminal Justice program engages students in the interdisciplinary study of crime and criminal justice, primarily within the United States. Students will gain an understanding of the psychological and sociological dimensions of crime as well as insights into the workings of the criminal justice system and its components. Students will study both academic and applied aspects of the field. Ethical implications and critical analysis of issues will be stressed.

A minor in Criminal Justice Studies requires the following:

PSY 357	Criminal Behavior	4 sh
SOC 355	Sociology of Crime	4 sh
HUS 359	Criminal Justice	4 sh
Eight semester hours of electives selected from the following:		8 sh
CJS 371-9	Special Topics in Criminal Justice	
CJS 481	Internship in Criminal Justice	
CJS 491	Independent Study	
PHL 341	Philosophy of Law	
POL 324	Civil Liberties	
SOC 342	Social Deviance	

Other courses as approved by the program coordinator

TOTAL	20 sh
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CJS 371-379. SPECIAL TOPICS IN CRIMINAL JUSTICE

2-4 sh

A series of courses reflecting new contributions to the Criminal Justice field and in-depth treatments of topics of special interest, such as terrorism and organized crime.

Prerequisites: junior standing and at least one core course, or permission of the instructor. Courses may be cross-listed with other disciplines.

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CJS 481. INTERNSHIP IN CRIMINAL JUSTICE

2-4 sh

Students apply classroom knowledge to a law enforcement setting. Internships in a criminal justice setting taken from other disciplines might substitute for CJS 481; approval for any such substitutions must be obtained from program coordinator before registration. Prerequisites: junior standing, at least one core course and approval of instructor and program coordinator.

CJS 491. INDEPENDENT STUDY

1-4 sh

Advanced study on a topic of special interest. Prerequisites: junior standing, at least one core course and approval of instructor and program coordinator.

CJS 499. RESEARCH

1-4 sh

In collaboration with a faculty member, students undertake an empirical or theoretical study of a topic in the realm of Criminal Justice studies. Research projects may include a review of the relevant research literature, data collection and analysis, and a presentation or report when the study is completed. Prerequisites: junior standing, at least one core course and approval of instructor and program coordinator. A research proposal form completed by the student in conjunction with the faculty member is required for registration.

Dance

Chair, Department of Performing Arts: Associate Professor McNeela

Associate Professor: Wellford

Assistant Professors: Ma, Sabo

Adjuncts: Bower, Hutchins, Medler, Roberts, Serrano, Shatterly, Wheeler

The Bachelor of Arts degree in Dance is designed for students who want to acquire a strong liberal arts and sciences background while pursuing a solid undergraduate dance education. The degree stresses performance and choreography as well as dance theory courses, including dance history, human anatomy, dance pedagogy and dance production.

The primary goal is to train students in the rudiments of dance technique, composition, history, pedagogy, performance and aesthetics in order for them to develop virtuosity in a variety of dance genres as teachers, choreographers and performers of dance. Studio technique classes range from beginning to advanced level and include ballet, modern, jazz and tap.

Students in the minor program are required to complete at least the beginning level in three of these areas and at least an intermediate level in two areas. Students round out their training with History of Dance and Dance Choreography classes.

Numerous performance opportunities are also available through Elon Dancers, choreographic showings, major dance concerts, musicals and various other events.

A major in Dance requires the following courses:

DAN 223	Dance Ensemble (1st of 2 required semesters)	1 sh
DAN 223	Dance Ensemble (2nd of 2 required semesters)	1 sh
DAN 301	History of Dance	4 sh
DAN 330	Dance Improvisation	4 sh
DAN 430	Dance Choreography	4 sh
DAN 495	Senior Seminar	4 sh
Eight semester hours of dance technique courses selected from:		8 sh

DAN 104, 204, 304 Modern (1 sh ea.)

DAN 105, 205, 305 Tap (1 sh ea.)

DAN 106, 206, 306 Ballet (1 sh ea.)

DAN 107, 207, 307 Jazz (1 sh ea.)

Students are required to complete at least the beginning level in 4 different technique categories, the intermediate level in at least two separate categories and the advanced level in at least one area. If the student is above the beginning level of technique at his/her entry into Elon, the beginning level requirement is waived by permission of dance faculty and the student may begin his/her technique classes at the intermediate level. Beginning, Intermediate and Advanced technique classes may be taken for repeat credit. Students require the approval of the appropriate dance faculty before moving to the next technical level.

Eight semester hours of dance electives selected from: 8 sh

DAN 310 Advanced Projects in Dance (2-4 sh)

DAN 320 Special Topics in Dance (2-4 sh)

DAN 420 Dance for Musical Stage (1 sh)

Twelve semester hours of general arts elective courses selected from: 12 sh

DAN 101 Introduction to Dance (4 sh)

DAN 115	Folk, Square and Social Dance (1 sh)
THE 125	Acting for Non-Majors (4 sh)
THE 210	Technical Production in Theatre (4 sh)
THE 222	Fundamentals of Make Up/Design (2 sh)
FNA 211	Introduction to Fine Arts (4 sh)
Other arts-related courses may be selected with prior permission of the chair of Performing Arts.	

TOTAL	46 sh
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A minor in Dance requires the following courses:

DAN 301	History of Dance	4 sh
DAN 430	Dance Choreography	4 sh

In addition, each minor must complete the following:

- | | | |
|-----|---|------|
| (a) | six studio technique classes in three of the following:
ballet, jazz, modern or tap | 6 sh |
| (b) | electives selected from dance offerings
(At least 2 semester hours at the 300-400 level) | 6 sh |

TOTAL	20 sh
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DAN 101. INTRODUCTION TO DANCE 4 sh

This course invites dancers and nondancers to learn basic dances and their history in the area of performing arts and social dances of a variety of periods. The creative process of dance will also be explored. Offered fall only.

DAN 104. BEGINNING MODERN DANCE 1 sh

Students with little or no previous experience in modern dance learn the basic movement vocabulary of modern dance while working on style, musicality, strength, flexibility and correct alignment. May be repeated for credit. Offered fall and spring.

DAN 105. BEGINNING TAP 1 sh

The student will be introduced to the basics of rhythm tap, including technique, traditional movement vocabulary, rhythmic sensibility, history and the development of individual style. May be repeated for credit. Offered fall and spring.

DAN 106. BEGINNING BALLET 1 sh

Students with little or no previous experience in ballet learn the basic movement vocabulary of modern ballet while working on style, musicality, strength, flexibility and correct alignment. May be repeated for credit. Offered fall and spring.

DAN 107. BEGINNING JAZZ 1 sh

Students with little or no previous dance experience learn the basic movement vocabulary of jazz while working on style, musicality, strength, flexibility and correct alignment. It is recommended that a beginning student complete DAN 104 and DAN 106 before taking DAN 107. May be repeated for credit. Offered fall and spring.

DAN 115. FOLK, SQUARE AND SOCIAL DANCE 1 sh

This course introduces the student to various folk, square and social dance forms through analysis, demonstration and practice with the objective being knowledge of the characteristics of each form and ability to participate in each.

DAN 150. DANCE FOR THE MUSICAL STAGE I 1 sh

This course is designed for the incoming music theatre major. Levels and abilities will be assessed, alignment corrected, fundamental dance technique and conditioning exercises taught and drilled in order to ready the student for dance technique and styles classes required by their major. Students will also learn fundamental locomotor skills and the basic techniques required for jumping and turning. Dance combinations stress-

ing steps and styles historically and traditionally used in the music theatre will be taught to a variety of musical styles. Stress is placed on giving the student a new awareness of and comfort with his or her body; to condition it, to gain the ability to apply dance technique and to learn to express musicality in a physical way. No prerequisite. For music theatre majors only. To be taken in the fall of the music theatre major's first year.

DAN 204. INTERMEDIATE MODERN DANCE **1 sh**

Students who have mastered the competencies of Beginning Modern Dance further develop and refine technique and increase strength and flexibility in this class. Enhanced musicality and creative expression are stressed. A student must master Intermediate Modern Dance before moving to DAN 304. May be repeated for credit. Prerequisite: DAN 104 or permission of instructor. Offered fall or spring.

DAN 205. INTERMEDIATE TAP **1 sh**

This course continues to focus on the aspects of DAN 105 plus the introduction of contemporary vocabulary, flash work, improvisation, polyrhythms and choreography. May be repeated for credit. Prerequisite: DAN 105 or permission of instructor. Offered fall and spring.

DAN 206. INTERMEDIATE BALLET **1 sh**

Students who have mastered the competencies of Beginning Ballet further develop and refine technique and increase strength and flexibility in this class. Enhanced musicality and creative expression are stressed. May be repeated for credit. Prerequisite: DAN 106 or permission of instructor. Offered fall and spring.

DAN 207. INTERMEDIATE JAZZ **1 sh**

Students with two or more years of dance training further develop and refine technique and increase strength and flexibility in this class. Enhanced musicality and creative expression are important elements of the course. A student must master Intermediate Jazz before moving to DAN 307. May be repeated for credit. Prerequisite: DAN 107 or permission of instructor. Offered fall and spring.

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DAN 223. DANCE ENSEMBLE **1 sh**

Students accepted into this course will perform in departmental dance concerts and must be coregistered in a technique class, preferably at the intermediate or advanced level. Admission by audition only. Offered spring.

DAN 301. HISTORY OF DANCE **4 sh**

Students explore the evolution of dance as an art from its beginning to 21st century trends. Dance as a performing art and dance as a social and educational art will be covered in this course. Students learn through lectures, discussions, experiential dances and research projects. Offered spring.

DAN 304. ADVANCED MODERN DANCE **1 sh**

Students who have mastered Intermediate Modern Dance further develop and refine skills in this class. Enhanced physical strength and flexibility are combined with stress upon musicality and creative expression. May be repeated for credit. Prerequisites: DAN 204 and permission of instructor. Offered fall or spring.

DAN 305. ADVANCED TAP **1 sh**

This course offers continuation of the skills developed in DAN 205 with an intense focus on rhythmic sensibility, development of personal style, choreography and improvisation. Prerequisites: DAN 205 and permission of instructor. May be repeated for credit. Offered fall or spring.

DAN 306. ADVANCED BALLET **1 sh**

Students who have mastered Intermediate Ballet further develop and refine technical skills in this class. May be repeated for credit. Prerequisites: DAN 206 and permission of instructor. Offered fall or spring.

DAN 307. ADVANCED JAZZ**1 sh**

Students who have mastered Intermediate Jazz further develop and refine technical skills in this class. May be repeated for credit. Prerequisites: DAN 207 and permission of instructor. Offered fall or spring.

DAN 310. ADVANCED PROJECTS IN DANCE**2-4 sh**

For this in-depth study of a special topic, the advanced dancer may be given a performance assignment to demonstrate advanced proficiency in the field (e.g., dance captain for a theatre production, major choreographic duties in department productions, major role in guest choreographer's concert piece, internship at local dance studio culminating in both performance and choreographic work or an independent research project). Prerequisite: advance permission of instructor.

DAN 320. SPECIAL TOPICS IN DANCE**2-4 sh**

Topics for this in-depth study vary each semester it is offered and may include Black Theatre & Dance, Dance in Worship, Dance Repertory, etc. May be repeated for credit.

DAN 330. DANCE IMPROVISATION**4 sh**

This course is about the practice of creativity through movement. The student will learn and apply locomotor and non-locomotor movements (learned and spontaneous) into meaningful dance combinations. Additional content areas include study of the four elements of dance (body, force, time and space), movement stimulated by music, visual art, words, colors, props, senses and everyday situations. Offered spring.

DAN 420. DANCE FOR MUSICAL STAGE II**1 sh**

Students will become familiar with various music theatre styles from selected historical periods. Students also learn dance audition and performance methods for music theatre. Prerequisite: senior music theatre majors or permission of instructor. Offered fall or spring.

DAN 430. DANCE CHOREOGRAPHY**4 sh**

Students will explore the tools used to create dance, namely movement, time, space, shape, design, dynamics, sound, text properties and visual effects. This course is designed for students with previous dance experience. Not open to freshmen or sophomores except in unusual circumstances. Prerequisites: DAN 330 and at least two dance technique classes or permission of instructor. Offered fall.

DAN 495. SENIOR SEMINAR IN DANCE**4 sh**

This course represents the culmination of the students' undergraduate training in the performing arts area of dance. Each student will assume total responsibility for a major project in dance which reflects the student's area of interest (such as choreography, performance or teaching). A second component of the course will be preparation of materials necessary for enrollment in graduate school or dance profession. This project must be approved by the professor in charge of this course. The professor will serve as an advisor and will not be used as a choreographer, director or creator of the project in any way. The student is required to produce written work to illustrate preparation, process, research and self-evaluation of the project. Finally, Departmental Assessment will take place where the student is required to demonstrate overall knowledge in the major.

Economics

The Martha and Spencer Love School of Business mission statement.
To provide instruction and experiences for our students so they graduate with the knowledge, skills and character essential for responsible business leadership in the 21st century.

Chair, Department of Economics: Associate Professor DeLoach
Professor: Tiemann
Associate Professors: Barbour, J. Das, Lilly, Redington
Assistant Professors: DiRienzo, Platania

Economics explores a broad range of questions about society and uses a wide variety of methods to answer those questions. The courses offered by the Department of Economics are designed to help students develop economic reasoning: a particular way of looking at the world that is useful in government service, business, the law and many other fields.

The goal of the economics faculty is to teach students to “think like an economist.” This goal is achieved within an extremely flexible major. The department has defined specific tracks that will help students apply their knowledge in a number of areas and help achieve their aspirations. While the tracks provide a suggested framework of classes for students with varied interests, a track is not required for either a major or a minor in economics. The financial economics track would apply if a student plans a future in finance or banking; the international economics track for those interested in international careers; the public policy track if the interest is in government service; the economic analysis track for those in market analysis and the mathematical economics track for students interested in graduate school.

A major in Economics requires the following courses:

MTH 112	General Statistics	4 sh
MTH 116	Applied Mathematics with Calculus	4 sh or
MTH 121	Calculus and Analytic Geometry I	
ECO 201	Principles of Economics	4 sh
ECO 203	Statistics for Decision Making	4 sh
ECO 310	Intermediate Macroeconomic Theory	4 sh
ECO 311	Intermediate Microeconomic Theory	4 sh
ECO 495	Senior Thesis Research in Economics	2 sh
Twenty hours ECO electives at the 300–400 level, with:		20 sh
At least four hours from courses designated Applied Macroeconomics (ECO 302, 314)		
At least four hours from courses designated Applied Microeconomics (ECO 301, 335, 421, 432)		
At least four hours from the 400 level		
No more than eight hours of travel, internship, independent study and research credit may be counted toward economics elective credit.		

TOTAL	46 sh
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A minor in Economics requires the following courses:

MTH 112	General Statistics	4 sh
ECO 201	Principles of Economics	4 sh
ECO 203	Statistics for Decision Making	4 sh

One course from the following:	4 sh
ECO 310 Intermediate Macroeconomic Theory	
ECO 311 Intermediate Microeconomic Theory	
Eight hours from other ECO electives	8 sh
No more than four hours of travel, internship, independent study and research credit may be counted toward economics elective credit.	
TOTAL	24 sh

ECO 201. PRINCIPLES OF ECONOMICS 4 sh

An introduction to the fundamentals of both microeconomics and macroeconomics, including supply and demand, the theory of the firm, consumer behavior, macroeconomic equilibrium, unemployment and inflation. The course also introduces students to economic methodology, including creating arguments, empirical verification and policy decision making. Offered fall, spring and summer.

ECO 203. STATISTICS FOR DECISION MAKING 4 sh

Applications of statistics to create knowledge useful for decision making. Bayesian probability, hypothesis testing, process and quality control and multivariate statistics, including multiple linear regression and forecasting are among the topics covered. A standard spreadsheet program will be used for most applications and oral and written presentation of statistical results will be required. Prerequisite: MTH 112.

ECO 271. SEMINAR: ECONOMIC ISSUES 1-4 sh

A series of courses covering contemporary issues in economics not otherwise covered in the curriculum. The topics will vary around a common theme of timeliness. These courses are appropriate to students from across the university irrespective of major or level.

ECO 301. BUSINESS ECONOMICS 4 sh

What functions do firms serve, and where do firms fit in a market economy? We will explore these questions by analyzing two perspectives. The first perspective is that firms are rational agents in markets, maximizing profits subject to the constraints of demand, production, cost and market structure. The second perspective is that a firm is a complex organization that has emerged in response to problems of information, strategy and value maximization. In the first perspective, firms are subordinate to markets. In the second perspective, the firm can often coordinate activity more effectively than markets. How — and when — is this possible? Applied Microeconomics. Prerequisites: ECO 201, 203 and MTH 116 (or 121). Offered fall, spring and summer.

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ECO 302. MONEY AND BANKING 4 sh

Students learn about the history and structure of the U.S. financial system. Exploration of the interaction between the primary financial markets — money, bonds and foreign exchange — is fundamental to this understanding. The theory and conduct of monetary policy is also developed, with particular attention paid to the evolution of the international monetary system. Applied Macroeconomics. Prerequisites: ECO 201 and 203. Offered spring.

ECO 310. INTERMEDIATE MACROECONOMIC THEORY 4 sh

This course concentrates on the theory of economic growth and the business cycle. Building on the simple Keynesian spending model, the IS-LM general equilibrium model is developed. Current policy debates, as well as debates within the discipline are explored and evaluated. Particular emphasis will be placed on the interaction of the theoretical and empirical components of macroeconomics. Prerequisites: ECO 201 and 203. Offered fall.

ECO 311. INTERMEDIATE MICROECONOMIC THEORY**4 sh**

With this study of how individual agents, both firms and households, interact in various kinds of markets, students gain a better understanding of household economic behavior, firm behavior and the conditions under which prices can most effectively allocate scarce resources. Prerequisites: ECO 201 and 203. Offered spring.

ECO 314. INTERNATIONAL TRADE AND FINANCE**4 sh**

This course focuses on how policies implemented by a country, both in trade and finance, influence its welfare at home and abroad. Topics in trade include specialization and gains from trade, determinants of trade patterns, the role of increased globalization on a nation's competitiveness and its distribution of income, the political economy of protectionism at the national, regional (NAFTA, EU) and international (WTO) levels as well as the use of trade policies to influence development and growth. Topics in finance include balance on international payments, the foreign exchange market, the economic policy adjustments under fixed and flexible exchange rates and focuses on the problems of international finance and international investments across countries. Applied Macroeconomics. Prerequisite: ECO 201. Offered spring.

ECO 315. ECONOMIC HISTORY**4 sh**

This course introduces and analyzes the importance of economic issues in the history of nations and regions. In the words of J.M. Keynes, "Indeed the world is driven by little else." The course is structured so that work will focus on a particular region of the world. The overarching objective of the course is to develop students' appreciation of the importance of economic activity and economic structures in the historical development of society. Prerequisites: junior standing or ECO 201.

ECO 317. GENDER AND DEVELOPMENT**4 sh**

This course is designed to help students investigate the economic status of women in the labor market, how that role has changed over time and the differences between labor market outcomes for both men and women. It involves a comparison of women and men with respect to labor supply (market and nonmarket work), wage rates, occupational choices, unemployment levels and the changing role of work and family. Topics include discrimination, pay inequity, occupational segregation, traditional and nontraditional work, resource ownership, poverty, race, the global economic status of women and public policy issues such as comparable worth and family-friendly policies designed to bridge the gap between women and men. Prerequisites: junior standing or ECO 201.

ECO 335. ENVIRONMENTAL ECONOMICS**4 sh**

This course explores the interactions of economic forces and policies with environmental issues. What are the costs of pollution and what are we buying for those costs? Who bears the burden of environmental damage? How might we reduce environmental impact and how do we decide how much damage is appropriate? Applied Microeconomics. Prerequisite: ECO 201. Offered fall.

ECO 347. INTRODUCTION TO ECONOMETRICS**4 sh**

This course explores the statistical problems associated with the measurement and evaluation of economic models. As such, it requires the simultaneous consideration of economic theory. The focus of the course is on the application of econometric techniques to real world problems encountered in economics. We begin with simple regression analysis and proceed to investigate the problems of multicollinearity, heteroskedasticity and autocorrelation. Advanced topics include limited dependent variable models and cointegration. Prerequisites: ECO 203 and MTH 116 or higher or permission of instructor.

ECO 348. MATHEMATICAL ECONOMICS**4 sh**

This course is designed to provide students in economics and mathematics with an opportunity to learn and use the tools of economics in the manner in which they are

employed in the profession. While mathematical techniques such as constrained optimization and multidimensional modeling will be taught, the principle aim of the course is to develop students' facility with using mathematics as a basis for economic reasoning. Prerequisites: ECO 203 and MTH 116 or higher or permission of instructor.

ECO 351. EUROPEAN UNION (EU) STUDY TOUR

4 sh

This travel course is an opportunity to see the development of the largest single economic unit ever to exist on Earth through the eyes of those who live within it. While traveling through the EU, students meet with people who are directly involved in the day-to-day operation of the European Union bureaucracy and with those who have had a hand in the negotiations that have resulted in the formation of the European Union. Students meet with scholars who have studied the European Union and its likely impacts on various economic, political and social aspects of daily life, both within the European Union and in the rest of the world. The class meets with small business owners who have been and continue to be affected by the developments of the European Union. In addition, we meet with representatives of the United States government and of United States businesses in the European Union. This course is a companion course with BUS 366, which is limited to business majors, and GST 274, which is open to all students. Prerequisite: ECO 201. Enrollment limited to economics majors. This course may not be used to fulfill advanced general studies requirements for the university general studies component. Offered in winter term only.

ECO 352. CAFÉ EUROPA: EASTERN EUROPE IN TRANSITION

4 sh

The end of the communist era began a painful process of economic transition across central and eastern Europe. In this course, students travel in this region and spend time meeting with students and professors to learn about how each nation is dealing with this process of change. Though each country must deal with some of the same issues such as macroeconomic stabilization, privatization, restructuring and legal reform, their experiences have been markedly different. One objective is to explore the interaction between these policy goals and the country-specific factors that have had an effect on their success. This course is a companion course with BUS 366, which is limited to business majors, and GST 257, which is open to all students. Prerequisite: ECO 201. Enrollment limited to economics majors. This course may not be used to fulfill advanced general studies requirements for the university general studies component. Offered in winter term only.

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ECO 371. SPECIAL TOPICS IN ECONOMICS

1-4 sh

A series of courses reflecting new contributions in economics or specialized areas not otherwise covered in the curriculum. Topics have included "Starting a Small Business," "The European Union via the Internet" and "The Economics of Sport." Prerequisites: will vary with the topic but will generally include junior standing or ECO 201 and 203.

ECO 381. INTERNSHIP IN ECONOMICS

1-8 sh

This course provides opportunities for students to apply concepts and information gathered in the economics classroom to actual experience in the community. Placements may include businesses, not-for-profit organizations or teaching assistants in lower-division economics classes. Prerequisites: junior standing or ECO 201 and 203 or permission of instructor. Offered fall, winter, spring and summer.

ECO 391. INDEPENDENT STUDY

1-4 sh

Students pursuing the major or minor in economics may complete individual study in an area of special interest that is not otherwise covered in regular course offerings. Study is to be undertaken under the guidance of a member of the economics faculty. An Independent Study form must be completed prior to registration. Prerequisites: junior standing or ECO 201 and 203 or permission of instructor. Offered fall, winter, spring and summer.

ECO 399. RESEARCH IN ECONOMICS**1-4 sh**

In collaboration with an economics faculty member, students undertake an empirical or theoretical study of a topic in economics. Research topics may include a review of the relevant research literature, data collection and analysis, and a presentation or report when the study is completed. A research proposal form, completed by the student in conjunction with the faculty member, is required for registration. Students may register for 1-4 hours of credit per semester and may register for more than one semester of research. Prerequisites: junior standing or ECO 201 and 203. Offered fall, winter, spring and summer.

ECO 411. HISTORY OF ECONOMIC THOUGHT**4 sh**

Students survey the evolution of economic thought from antiquity to the present and learn to identify and critically evaluate various schools of economic thought. In particular, students will develop a sense of economics as part of the larger sweep of intellectual advancement and the place thoughts about economic matters occupy in human knowledge. Prerequisites: completion or concurrent enrollment in ECO 310 and 311 or permission of instructor.

ECO 421. INDUSTRIAL ORGANIZATION AND REGULATION**4 sh**

Industrial organization is a policy course concerned with the structure of firms and markets and their interactions. Real world market frictions such as limited information, transaction costs, costs of adjusting prices, advertising and research and development expenses, government actions and barriers to entry by new firms into a market will be examined. This course offers a critical understanding of specific industries such as computers, airline, automobile, telecommunications, etc. Students study how firms in such industries strategically react to rivals and customers and further examine the impact of antitrust regulation, public utility regulation and social regulation on American business. Applied Microeconomics. Prerequisites: completion or concurrent enrollment in ECO 310 and ECO 311 or permission of instructor.

ECO 430. EXPERIMENTAL ECONOMICS**4 sh**

This course will develop your ability to learn from experience. We will explore the general principles of experimental design and review the history of experimental economics. The primary student task in the course will be to design, implement, analyze and describe a significant experiment. We will use the statistical software SAS to analyze the data. No previous experience with SAS is needed. Prerequisites: completion or concurrent enrollment in ECO 310 and 311 or permission of instructor.

ECO 432. PUBLIC FINANCE**4 sh**

This course exists at the interface of economics and political science. The principle issue is an examination of the question: "What is the proper role of government in the economic sphere?" Specific topics include optimal taxation, tax incidence, expenditure analysis, how governments decide among alternative programs, public production and bureaucracy and equity-efficiency tradeoffs. The course deals with the relationships among governments at the federal, state and local levels from both theoretical and applied perspectives. Applications vary from year to year, but will likely include health care, defense, social insurance, welfare and education. Applied Microeconomics. Prerequisites: completion or concurrent enrollment in ECO 310 and 311 or permission of instructor.

ECO 440. URBAN ECONOMICS AND PLANNING**4 sh**

A study of the development of cities and how public policy has and can affect their form and health. Land values, urban problems, urban transportation, zoning and planning and local government finance will be covered. Prerequisites: completion or concurrent enrollment in ECO 310 and 311 or permission of the instructor.

ECO 471. ADVANCED SPECIAL TOPICS IN ECONOMICS**1-4 sh**

A series of courses reflecting new contributions in economics or specialized areas not otherwise covered in the curriculum. Prerequisites: will vary with the topic but will generally include completion or concurrent enrollment in ECO 310 and 311. Offered fall, winter and spring.

ECO 481. ADVANCED INTERNSHIP IN ECONOMICS**1-4 sh**

This course provides opportunities for students to apply concepts and information gathered in the economics classroom to actual experience in the community. Placements may include businesses, not-for-profit organizations or teaching assistants in lower-division economics classes. Prerequisites: will vary with the topic but will generally include completion or concurrent enrollment in ECO 310 and ECO 311 or permission of instructor. Enrollment limited to economics majors. Offered fall, winter, spring and summer.

ECO 491. ADVANCED INDEPENDENT STUDY**1-4 sh**

Students pursuing the major or minor in economics may complete individual study in an area of special interest that is not otherwise covered in regular course offerings. Study is to be undertaken under the guidance of a member of the economics faculty. An Independent Study form must be completed prior to registration. Prerequisites: will vary with the topic but will generally include completion or concurrent enrollment in ECO 310 and ECO 311 or permission of instructor. Enrollment limited to economics majors. Offered fall, winter, spring and summer.

ECO 495. SENIOR THESIS**2-4 sh**

This is the culmination of the economics major and serves as the student's required comprehensive evaluation in the major field of study. For this research project, economics majors work individually with a professor to build on work done in previous courses, culminating in a work of presentation quality. The completed work is to be presented in a public forum such as SURF, national or regional professional society meetings or at a campus-level economics symposium. In addition, all students are to present their work before the collected faculty, students and guests of the economics department. Prerequisites: ECO 310, 311 and eight additional hours of economics numbered 300 or above; senior economics major.

105**ECO 499. ADVANCED RESEARCH****1-4 sh**

Students engage in advanced undergraduate research under the direction of an economics department faculty member. Predominately this course will be restricted to economics majors and will be in preparation for their senior thesis. Maximum of eight semester hours total credit. Prerequisites: eligibility as determined by the undergraduate research guidelines of Elon University and approval by the department. Enrollment limited to economics majors.

Education

Chair, Department of Education: Associate Professor Long

Professors: Crawford, Dillashaw, Howard, Simon

Associate Professors: Stasz, Stuart

Assistant Professors: Byrd, Drake, Knight-McKenna, Mihans

The mission of Teacher Education at Elon University is to prepare quality teachers who are knowledgeable, responsible and thoughtful professionals. The conceptual framework, "Thoughtful Practice in a Community of Learners," reflects the intention to create a learning environment in which teacher candidates inquire and collaborate to develop the knowledge, skills and dispositions for effective professional practice.

Knowledge

1. Demonstrate in-depth knowledge of the subject area(s) for which they seek licensure.
2. Use knowledge of students' learning process to inform instruction.
3. Demonstrate understanding of pedagogical knowledge relevant to the subject area(s) for which they seek licensure.
4. Choose appropriately from among multiple instructional strategies to promote optimal student learning.
5. Choose appropriately from among a variety of resources, including technology, to promote active student learning.

Inquiry

6. Seek to understand students' family and community cultures and to use knowledge to inform practice.
7. Inquire, actively and persistently, about student learning through the use of a variety of assessment procedures.
8. Analyze, through reflective practice, the effectiveness of their instruction and make appropriate adaptations to maximize student learning.

Professionalism

9. Establish positive classroom learning environments that support the social and academic growth of students.
10. Hold high expectations for the academic and social growth of all students.
11. Seek opportunities to further personal learning and professional growth.
12. Demonstrate enthusiasm and respect for the profession of teaching.

Elon's education program prepares teachers for careers in the elementary, middle and high school grades. The program emphasizes practical hands-on experience in classrooms as well as educational theory and methods classes on campus. Yearly field experiences in public school classrooms begin the first year and culminate with a full semester of teaching in the teacher candidate's licensure area.

Elon is widely recognized for the success of its Teacher Education program, which is accredited by the National Council for Accreditation of Teacher Education, and is one of only two private institutions in the state selected to offer the prestigious N.C. Teaching Fellows program.

Elon University offers programs leading to N.C. licensure in elementary education, middle grades education, special education (General Curriculum), special subject areas for grades K-12 and in seven areas at the secondary level.

The student who successfully completes any of the Teacher Education programs at Elon University will be eligible for licensure to teach in North Carolina. The state of North Carolina is party to the Interstate Certification Compact which qualifies Elon University graduates also to be licensed in all states party to this Compact. Currently there are 26 states which have entered into this reciprocity agreement. Any student planning to teach in a state not a part of the Interstate Certification Compact should obtain a copy of the licensure requirements for a public school teacher from the state superintendent of education of the state in which the student plans to teach.

Before being admitted into the Teacher Education program, the student must make application to the program, be recommended by the appropriate major department, be interviewed and approved by the Teacher Education Committee and meet minimum score requirements on the Preprofessional Skills Tests. North Carolina requires the following minimum scores: PPST Reading-176, PPST Mathematics-173 and PPST Writing-173. A minimum GPA of 2.5 is required for all coursework completed at the time of admission and must be maintained in order to continue in the program. In addition all students must pass a grammar competency test and earn a grade of C- or better in MTH 210 and PSY 321 to be admitted to the elementary education, special education or the middle grades programs.

In all cases, approval for admission to the program is subject to the discretion of the Teacher Education Committee, which bases its decision not only on the above factors, but also on satisfactory command of standard English usage (written and oral) and mental, physical, moral and emotional acceptability for teaching. The Teacher Education Committee may, at its discretion, dismiss a student from the Teacher Education program.

Application forms for the Teacher Education program are available in the office of the School of Education and must be filed by October 15 or March 15 of the semester immediately prior to the beginning of the student's junior year. A student must be unconditionally admitted to the program before being permitted to take education courses beyond the 200 level with the exception of EDU 398, Children's Literature (which does not require admission to the program). Any other exceptions to this policy must be approved by the dean of the School of Education.

To be recommended for teacher licensure, a teacher candidate must meet all academic requirements and have a minimum GPA of 2.5. A teacher candidate must also meet the North Carolina minimum score on the Specialty Area Test (minimum scores for these tests vary with content area) and have a recommendation from the school system in which student teaching was completed. They must also complete a technology portfolio as required by the North Carolina State Board of Education.

All students who are education majors or who already hold a bachelor's degree and are seeking only licensure are subject to the decisions and regulations of the N.C. State Board of Education. These decisions and regulations are binding on the student on the date and time specified by the board.

At Elon University, the Teacher Education programs are fully approved by the N.C. State Board of Education. While a student ordinarily may graduate and be licensed under the catalog requirements in effect at the time the student is admitted to the Teacher Education program, the board may mandate changes in standards of approved teacher education programs, requiring students to modify or add to their original degree programs to be eligible for licensure upon completion of graduation requirements. Students should consult their advisor about current program requirements.

A major in Elementary Education consists of the courses necessary to meet the requirements for elementary education (K-6) licensure in the public schools of North Carolina. The following courses are required of all elementary education majors:

FOUNDATIONAL COURSES

BIO 101	Topics in General Biology	3 sh
BIO 102	General Biology Lab	1 sh
SCI 121	Science Without Borders	4 sh
POL 111	American Government	4 sh
HST 123	The U.S. and N.C. since 1865	4 sh
* MTH 210	Mathematics for Elementary and Middle Grades Teachers (GS Math requirement is a prerequisite)	4 sh
CIS 220	Computers and Teaching	3 sh
* PSY 321	Educational Psychology	4 sh
HED 362	Healthful Living in the Elementary School	2 sh
FNA 369	Fine Arts in the Public Schools	4 sh
EDU 398	Children's Literature	4 sh
EDU 211	School and Society	4 sh

Cultural Perspective Concentration

12 sh

(see pages 109-113)

Passing score on Grammar Competency Test

EDU 323	Literacy Development I: Principles and Practices	3 sh
EDU 324	Literacy Development II: Strategies & Instruction for Struggling Readers	3 sh
EDU 346	Classroom Management	2 sh
EDU 451	Teaching Diverse Learners	4 sh

Principles of Learning and Teaching (PLT) I

8 sh

EDU 311 Principles of Learning and Teaching (PLT) I

Concentration areas:

Language Arts and Social Studies Methods and Materials

or

EDU 312 Principles of Learning and Teaching (PLT) I

Concentration areas:

Mathematics and Science Methods and Materials

and

Principles of Learning and Teaching (PLT) II

8 sh

EDU 411 Principles of Learning and Teaching (PLT) II

Concentration areas:

Language Arts and Social Studies Methods and Materials

or

EDU 412 Principles of Learning and Teaching (PLT) II

Concentration areas:

Mathematics and Science Methods and Materials

Students who enroll in EDU 311 will enroll in EDU 412 in the following semester.
 Students who enroll in EDU 312 will enroll in EDU 411 in the following semester.
 This will ensure that all four content areas are addressed.

EDU 481	Supervised Observation and Student Teaching	10 sh
EDU 482	Critical Issues in Education: Capstone Seminar I	2 sh
EDU 483	Reflective Analysis of Practice: Capstone Seminar II	2 sh
TOTAL		95 sh

Cultural Perspective Concentrations

Elementary Education majors are encouraged to pursue a minor in one of the following areas:

- African/African American Studies
- Asian Pacific Studies
- Foreign Language
- International Studies
- Latin American Studies
- Women's Studies/Gender Studies

When a minor in one of these areas is not possible, Elementary Education majors are required to choose a minimum of 12 credit hours in a concentration with at least four hours at the 300-400 level. Students are strongly encouraged to study abroad for a semester or winter term to meet these requirements. Courses fulfilling the cultural perspective concentration requirement may, as appropriate, also fulfill general studies requirements. Minors in other areas, with a concentration, are also encouraged.

Following are the approved cultural perspective concentrations:

- Education for Social Justice
- International Studies
- Semester Abroad
- Society and Environment
- Women's Studies/Gender Studies

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Education for Social Justice

Students choosing the Education for Social Justice Concentration are encouraged to expand the concentration to complete a minor in one of the following areas:

- African/African American Studies
- Non-Violence Studies
- International Studies Concentration

International Studies

Students choosing the *International Studies Concentration* should begin their course of study with HST INT 221 (4 sh) World in the Twentieth Century.

Choose one of the following options:

- Foreign Language Study (8 sh of one modern foreign language)
- Regional Concentration
 - Africa
 - Asian/Pacific
 - Europe
 - Latin America

Students are encouraged to expand the *International Studies Concentration* to complete a minor in one of the following areas:

African/African American Studies

Asian Pacific Studies

Foreign Language

International Studies

Latin American Studies

*Global Studies is not an option.

Semester Abroad

A semester abroad may substitute for the concentration requirements. Check with your advisor for appropriate semester abroad options.

Society and Environment

This concentration is designed for teacher candidates who would like to pursue a more scientific approach to issues of diversity. This concentration is an exceptionally good fit with the elementary science curriculum.

Women's Studies/Gender Studies

Students choosing the Women's Studies/Gender Studies concentration are encouraged to expand the concentration to complete a minor in Women's Studies/Gender Studies.

The courses listed under each concentration provide **examples** of possibilities. Courses in the minor and additional courses may be approved by the department chair in education in consultation with the appropriate department chair or program director. These courses may also count toward general studies requirements.

Education for Social Justice

ENG 255	Topics in Literature (as thematically appropriate)
ENG 238	African-American Literature before 1945
ENG 239	African-American Literature since 1945
ENG 337	Asian Literature of Social Change
ENG 359	African-American Novels
ENG 370	Simple Living
ENG 372	Literature of Non-Violence
ENG/GST 373	America and Vietnam
MUS 343	African-American Composers (cross-listed with GST 343)
PHL 352	Eastern Philosophy
PHL 348	Environmental Ethics
PHL/GST 330	Economic Justice
HST 133	Civil Rights Movement
HST 363	African-American History, 1850-Present
HST 388	History of the Caribbean
REL 341	Christian Ethics
REL 345	Theology of Human Liberation
REL 348	Environmental Ethics
REL 353	Buddhism
REL 377	Feminist Ethics

REL 279	Topics in Eastern Religion
GEO 310	Development and the Environment in Latin America, Africa, Southeast Asia
GEO 320	Geography of Africa
GEO 331	Study Abroad: Analyzing Your Experience
GEO 342	Gender and Environment in South America
POL 141	International Relations
POL 324	Civil Liberties
POL 342	U.S. Foreign Policy
POL 345	International Terrorism
POL 367	Politics of Africa
POL 368	Latin American Politics
POL 374	Judicial Administration
POL 377	Politics of Victimization
POL 441	Peace, War and Conflict Resolution
PSY 325	Psychology of American Protest Music
PSY 327	Psychology of Non-Violence
PSY 357	Criminal Behavior
SOC 241	Social Issues and Problems
SOC 245	Non-Violence of the Brave: From Ghandhi to King
SOC 341	Ethnic and Race Relations
SOC 343	Social and Cultural Change

International Studies

HST/INT 221 (4) World in the Twentieth Century

This course is required in this concentration.

Regional Concentration: Africa

ART 341	African Art (4)
ENG 255	Topics in Literature (as thematically appropriate)
ENG 338	African Experiences in Literature
FRE 362	Francophone Cultures Outside France
HST 313	Modern Africa
HST 314	History of Southern Africa
GEO 320	Geography of Africa
POL/INT 141	International Relations
POL 367	Politics of Africa
JCM 346	African Film
AAA 361	Seminars in African/African American Studies
AAA 491	Independent Study

Regional Concentration: Asian/Pacific

ENG 255	Topics in Literature (as thematically appropriate)
ENG 337	Asian Literature of Social Change
PHL 352	Eastern Philosophy
PHL 353	Zen and the Culture of Japan
HST 320	China, Japan and the Pacific Century
REL 353	Buddhism
REL 356	Hinduism

- POL/INT 141 International Relations
- POL 363 Politics of Asia
- POL 365 Politics of Eurasia
- SOC 329 Peoples & Cultures of Southeast Asia
- SOC 344 Socio/cultural Change in India
- ENS 310 Environmental Issues of Southeast Asia

Regional Concentration: Europe

- ENG 222 British Literature II
- ENG 325 Romanticism
- ENG 326 Realism and the Later 19th Century
- ENG 356 The Novel: British Women Writers
- PHL 433 Marx, Darwin and Freud
- FRE 332 Introduction to French Literature II
- FRE 361 French Civilization
- SPN 333 Spanish Civilization
- SPN 351 Studies in Peninsular Literature
- SPN 353 Survey in Peninsular Literature
- HST 316 The History of Imperial Russia to 1917
- HST 317 Russia & the Soviet Union since 1917
- HST 324 England Within the British Empire
- HST 326 History of Ireland
- HST 327 History of Scotland
- HST 335 Growth of Modern Europe
- HST 336 Europe, 1914-1945
- HST 337 Europe, 1945 to present
- HST 338 Germany, Democracy & Hitler 1914-1945
- HST 339 A History of the Holocaust

- POL/INT 141 International Relations
- POL 364 Politics of Europe
- POL 365 Politics of Eurasia
- POL 428 Comparative Public Policy

Regional Concentration: Latin America

- ENG 255 Topics in Literature (as thematically appropriate)
- ENG 335 Latin American Literature and Culture
- SPN 334 Latin American Civilization
- SPN 352 Survey of Latin American Literature
- SPN 354 Studies in Latin American Literature
- HST 341 Modern Central American History
- HST 350 History of Brazil
- HST 351 History of Mexico
- HST 353 Colonial Latin America
- HST 354 Modern Latin America
- GEO 342 Gender and Environment in South America
- ENS 365 Natural History, Ecology of Latin America
- POL/INT 141 International Relations
- POL 368 Latin American Politics
- SOC 363 Latin American Social Movements
- SOC 364 Inequality and Development in Latin America

Society and Environment

ENG 339	American Environmental Writers
PHL/REL 348	Environmental Ethics
ECO 335	Economics of Environmental Issues (prereq. ECO 201)
GEO 310	Development and the Environment in Latin America, Africa and South Asia
POL 224	Environmental Policy and Law
POL 344	International Environmental Policy
BIO 112, 114	Introduction to Population Biology and Lab
BIO 215	Organismal Biology and Field Techniques
ENS 111, 113	Introduction to Environmental Science and Lab
PHY 110	Energy and the Environment
BIO 335 IS	Field Biology in Belize
BIO 379 IS	Field Biology in the Galapagos
ENS 310	Environmental Issues of Southeast Asia
ENS 365	Natural History, Ecology of Latin America
ENS 372	Environmental Visions – Alternative Futures
BIO 344	Evolution
ENS/GEO 350	Introduction to Geographic Information Systems

Women's Studies/Gender Studies

ENG 255	Topics in Literature (as thematically appropriate)
ENG 333-WG	Women in Literature: Feminist Approaches
ENG 356-WG	The Novel: British Women Writers
ENG 361-WG	Gender Issues in Cinema
PHL 345-WG	Feminist Philosophy
HST 364-WG	History of Women in the U.S.
REL 347-WG	Women and Religion
ECO 270-WG	Economics of Gender
GEO 342	Gender and Environment in South America
POL 241-WG	International Relations
PSY 215-WG	Psychology of Personal Relationships
PSY 315-WG	Psychology of Sex and Gender
SOC 311-WG	The Family
SOC 345-WG	Sociocultural Perspectives on Gender
GST 270-WG	Women, Men and Society
GST 257-WG	Women, Culture and Development
GST 369-WG	Men and Masculinity
GST 269	Women and Leadership
WGS 300	Current Controversies in Feminism
WGS 461-469	Special Topics in Women's Studies/Gender Studies
WGS 481	Internship in Women's Studies/Gender Studies
WGS 491	Independent Study

The Special Education (General Curriculum) is a dual licensure program in which teacher candidates complete the requirements for licensure in Special Education (General Curriculum) and one of the following areas: Elementary Education, Middle Grades Education, English Education, Mathematics Education, Social Studies/History Education, or Science Education (biology concentration).

All **Special Education (General Curriculum)** students must take the following core courses:

Core courses

EDU 211	School and Society	4 sh
EDU 342	Foundations of Special Education	3 sh
EDU 345	Planning and Managing the Learning Environment in Special Education	4 sh
EDU 435	Assessment Methods and Interpretation in Special Education	4 sh
EDU 444	Language, Literacy and Mathematics in Special Education	4 sh
EDU 445	Teaching/Learning Strategies for Students in Special Education	4 sh

TOTAL		23 sh
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Special Education and Elementary Education

CORE COURSES		23 sh
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FNA 369	Fine Arts in the Public Schools	4 sh
HED 362	Healthful Living in the Elementary School	2 sh
HST 123	The U.S. and N.C. since 1865	4 sh
POL 111	American Government	4 sh
BIO 101	Topics in General Biology	3 sh
BIO 102	General Biology Lab	1 sh
SCI 121	Science without Borders	4 sh
PSY 321	Educational Psychology	4 sh
MTH 210	Mathematics for Elementary and Middle Grades Teachers (GS Math requirement is a prerequisite)	4 sh
CIS 220	Computers and Teaching	3 sh
	Cultural Concentration Courses	12 sh
EDU 323	Literary Development I: Principles and Practices	3 sh
EDU 398	Children's Literature	4 sh
	<u>Principles of Learning and Teaching (PLT) I</u>	8 sh
EDU 311	Principles of Learning and Teaching (PLT) I Concentration areas: Language Arts and Social Studies Methods and Materials or	
EDU 312	Principles of Learning and Teaching (PLT) I Concentration areas: Mathematics and Science Methods and Materials	

and

	<u>Principles of Learning and Teaching (PLT) II</u>	8 sh
EDU 411	Principles of Learning and Teaching (PLT) II Concentration areas: Language Arts and Social Studies Methods and Materials or	

EDU 412	Principles of Learning and Teaching (PLT) II <i>Concentration areas:</i> Mathematics and Science Methods and Materials	
EDU 481	Student Teaching – Winter Term	4 sh
EDU 481	Student Teaching – Spring Semester	10 sh
EDU 482	Critical Issues in Education: Capstone Seminar I	2 sh
EDU 483	Reflective Analysis of Practice: Capstone Seminar II	2 sh

TOTAL	109 sh
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Special Education and Middle Grades Education

CIS 220	Computers and Teaching	3 sh
PSY 321	Educational Psychology	4 sh
CORE COURSES		23 sh

Middle Grades Concentration – choose one

Communication Skills Concentration

ENG 205	Grammar	4 sh
ENG 224	American Literature II	4 sh
ENG 250	Interpretations of Literature	4 sh
ENG 319	Writing Center Workshop	4 sh
ENG 399	Young Adult Literature	4 sh
EDU 421	Materials and Methods of Teaching Middle Grades and Secondary English	4 sh

One course from the following:	4 sh
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ENG 238	African-American Literature before 1945	
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ENG 239	African-American Literature since 1945	
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ENG 359	African-American Novels	
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115

concentration total	28 sh
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OR Social Studies Concentration

ECO 201	Principles of Economics	4 sh
GEO 131	The World's Regions	4 sh
HST 112	Europe and the Mediterranean World since 1660	4 sh
HST 123	U.S. & N.C. Since 1865	4 sh
HST 221	The World in the Twentieth Century	4 sh
POL 111	American Government	4 sh
EDU 425	Materials and Methods of Teaching Middle Grades and Secondary Social Studies	4 sh

concentration total	28 sh
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OR Mathematics Concentration

MTH 112	General Statistics	4 sh
MTH 115	Trigonometry	4 sh
MTH 121	Calculus and Analytic Geometry I	4 sh
MTH 221	Calculus and Analytic Geometry II	4 sh

MTH 210	Mathematics for Elementary and Middle Grades Teachers	4 sh
MTH 206	Discrete Structures	4 sh
EDU 422	Materials and Methods of Teaching Middle Grades and Secondary Mathematics	4 sh

concentration total **28 sh**

OR Science Concentration

BIO 101	Topics in General Biology	3 sh
BIO 102	General Biology Lab	1 sh
SCI 121	Science without Borders	4 sh
CHM 111	General Chemistry I	3 sh
CHM 113	General Chemistry Lab	1 sh
PHY 110	Energy and the Environment	4 sh
PHY 102	Introduction to Astronomy	4 sh
PHY 103	Introduction to Geology	4 sh
EDU 424	Materials and Methods of Teaching Middle Grades and Secondary Science	4 sh

concentration total **28 sh**

EDU 441	Foundations of Middle Level Teaching	3 sh
EDU 442	Effective Middle Level Teaching	4 sh
EDU 481	Student Teaching	10 sh
EDU 482	Critical Issues in Education: Capstone Seminar I	2 sh
EDU 483	Reflective Analysis of Practice: Capstone Seminar II	2 sh

TOTAL **79 sh**

Special Education and English Education

CIS 220	Computers and Teaching	3 sh
PSY 321	Educational Psychology	4 sh

CORE COURSES **23 sh**

ENG 221	British Literature I	4 sh or
ENG 222	British Literature II	4 sh
ENG 219	Writing	4 sh
ENG 205	Grammar	4 sh
Eight hours	300-level literature	8 sh
ENG 206	Introduction to TESOL	4 sh
ENG 223, 224, 238, or 239	(American Literature)	4 sh
ENG 331, 335, 337, or 338	(World Literatures)	4 sh
ENG 319	Writing Center Workshop	4 sh
ENG 342	Shakespeare	4 sh
ENG 495	Senior Seminar: Literature	4 sh
EDU 421	Materials and Methods of Teaching Middle Grades and Secondary English	4 sh
EDU 480	Student Teaching Seminar	2 sh

EDU 481	Student Teaching	10 sh
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TOTAL		90 sh
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Special Education and Mathematics Education

CORE COURSES		23 sh
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CSC 130	Computational Programming	4 sh
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MTH121	Calculus and Analytic Geometry I	4 sh
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MTH 221	Calculus and Analytic Geometry II	4 sh
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MTH 231	Mathematical Reasoning	4 sh
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MTH 311	Linear Algebra	4 sh
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MTH 312	Abstract Algebra	4 sh
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MTH 321	Calculus and Analytic Geometry III	4 sh
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MTH 331	Modern Geometry	4 sh
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MTH 341	Probability Theory and Statistics	4 sh
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MTH 425	Analysis	4 sh
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MTH 361	Seminar I	2 sh
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MTH 461	Seminar II	2 sh
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PHY 113	Physics w/Calculus	4 sh
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PSY 321	Educational Psychology	4 sh
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EDU 422	Materials and Methods of Teaching Middle Grades and Secondary Math	4 sh
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EDU 480	Student Teaching Seminar	2 sh
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EDU 481	Student Teaching	10 sh
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TOTAL		91 sh
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Special Education and History Education

CIS 220	Computers and Teaching	3 sh
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PSY 321	Educational Psychology	4 sh
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CORE COURSES		23 sh
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HST 111	Europe and the Mediterranean World to 1660	4 sh
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HST 112	Europe and the Mediterranean World since 1660	4 sh
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HST 121	United States History through 1865	4 sh
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HST 123	U.S. & N.C. Since 1865	4 sh
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HST 301	Research Methods	4 sh
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One history seminar course		4 sh
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Twelve hours HST electives at the 300-400 level chosen from each of the following areas:		12 sh
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1) US Minority History (African-Americans, Native Americans
and Women in the U.S.)

2) Europe

3) Developing World (Africa, Latin America and Asia)

GEO 131	The World's Regions	4 sh
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POL 111	American Government	4 sh
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ECO 201	Principles of Economics	4 sh
EDU 425	Materials and Methods of Teaching Middle Grades and Secondary Social Studies	4 sh
EDU 480	Student Teaching Seminar	2 sh
EDU 481	Student Teaching	10 sh

TOTAL		94 sh
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Special Education and Science Education

CIS 220	Computers and Teaching	3 sh
PSY 321	Educational Psychology	4 sh

CORE COURSES		23 sh
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BIO 111	Introductory Cell Biology	3 sh
BIO 112	Introductory Population Biology	3 sh
BIO 113	Cell Biology Lab	1 sh
BIO 114	Population Biology Lab	1 sh
BIO 221	Zoology	4 sh
BIO 222	Botany	4 sh
BIO 322	Molecular/Cellular Biology	4 sh
CHM 111	General Chemistry I	3 sh
CHM 112	General Chemistry II	3 sh
CHM 113	General Chemistry I Lab	1 sh
CHM 114	General Chemistry II Lab	1 sh
CHM 211	Organic Chemistry I	3 sh
CHM 213	Organic Chemistry I Lab	1 sh

Select one course from:		4 sh
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BIO 312	Comparative Vertebrate Anatomy
BIO 321	Microbiology
BIO 325	Human Histology
BIO 342	Plant Physiology
BIO 452	General Ecology

Select one course from:		4 sh
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CHM 212/214	Organic Chemistry II & Lab
CHM 205	Inorganic Chemistry

PHY 102	Astronomy	4 sh
PHY 103	Geology	4 sh
EDU 424	Materials and Methods of Teaching Middle Grades and Secondary Science	4 sh
EDU 480	Student Teaching Seminar	2 sh
EDU 481	Student Teaching	10 sh

TOTAL		94 sh
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A major in Middle Grades Education consists of the courses necessary to meet the requirements for middle grades (6-9) licensure in the public schools of North Carolina. The following Core Courses are required of all middle grades majors:

CIS 220	Computers and Teaching	3 sh
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PSY 321	Educational Psychology	4 sh
EDU 211	School and Society	4 sh
EDU 324	Literacy Development II: Strategies & Instruction for Struggling Readers	3 sh
EDU 346	Classroom Management	2 sh
EDU 441	Foundations of Middle Level Education	3 sh
EDU 442	Effective Middle Level Teaching	4 sh
EDU 451	Teaching Diverse Learners	4 sh
EDU 481	Supervised Observation and Student Teaching	10 sh
EDU 482	Critical Issues in Education: Capstone Seminar I	2 sh
EDU 483	Reflective Analysis of Practice: Capstone Seminar II	2 sh
One subject area concentration		28 sh
TOTAL		69 sh

In addition to the **Core Courses**, a student majoring in middle grades education must select one subject area concentration from the following:

Communication Skills Concentration

ENG 205	Grammar	4 sh
ENG 224	American Literature II	4 sh
ENG 250	Interpretations of Literature	4 sh
ENG 319	Writing Center Workshop	4 sh
ENG 399	Young Adult Literature	4 sh
EDU 421	Materials and Methods of Teaching Middle Grades and Secondary English	4 sh
One course from the following:		4 sh
ENG 238	African-American Literature before 1945	
ENG 239	African-American Literature since 1945	
ENG 359	African-American Novels	

concentration total	28 sh
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Social Studies Concentration

ECO 201	Principles of Economics	4 sh
GEO 131	The World's Regions	4 sh
HST 112	Europe and the Mediterranean World since 1660	4 sh
HST 123	U.S. & N.C. Since 1865	4 sh
HST 221	The World in the Twentieth Century	4 sh
POL 111	American Government	4 sh
EDU 425	Materials and Methods of Teaching Middle Grades and Secondary Social Studies	4 sh

concentration total	28 sh
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Mathematics Concentration

MTH 112	General Statistics	4 sh
MTH 115	Trigonometry	4 sh

MTH 121	Calculus and Analytic Geometry I	4 sh
MTH 221	Calculus and Analytic Geometry II	4 sh
MTH 210	Mathematics for Elementary and Middle Grades Teachers	4 sh
MTH 206	Discrete Structures	4 sh
EDU 422	Materials and Methods of Teaching Middle Grades and Secondary Mathematics	4 sh
concentration total		28 sh

Science Concentration

BIO 101	Topics in General Biology	3 sh
BIO 102	General Biology Lab	1 sh
SCI 121	Science without Borders	4 sh
CHM 111	General Chemistry I	3 sh
CHM 113	General Chemistry Lab	1 sh
PHY 110	Energy and the Environment	4 sh
PHY 102	Introduction to Astronomy	4 sh
PHY 103	Introduction to Geology	4 sh
EDU 424	Materials and Methods of Teaching Middle Grades and Secondary Science	4 sh
concentration total		28 sh

The student planning to teach at the high school level completes a major in a discipline and the necessary **Professional Studies** courses for teacher licensure at the secondary level (grades 9-12). Secondary education licensure is available in biology, chemistry, comprehensive science, English, history, mathematics, physics and social studies. Specific requirements for each program are listed with the appropriate department in this catalog. In general, the following Professional Studies courses must be satisfactorily completed:

EDU 211	School and Society	4 sh
EDU 322	Reading in the Content Areas	2 sh
Choose an appropriate methods course:		4 sh
EDU 421	Materials and Methods of Teaching Middle Grades and Secondary English	
EDU 422	Materials and Methods of Teaching Middle Grades and Secondary Mathematics	
EDU 424	Materials and Methods of Teaching Middle Grades and Secondary Science	
EDU 425	Materials and Methods of Teaching Middle Grades and Secondary Social Studies	
EDU 430	Foundations of Education	3 sh
EDU 450	Meeting Special Learning Needs of Children	3 sh
EDU 480	Student Teaching Seminar	2 sh
EDU 481	Supervised Observation and Student Teaching	10 sh
CIS 220	Computers and Teaching (Not required for Mathematics Education majors)	3 sh
PSY 321	Educational Psychology	4 sh
TOTAL		35 sh

Programs leading to licensure in Special Subject Areas (K-12) level are available in French, health education, music education, physical education and Spanish. Specific requirements for these programs are listed with the appropriate department in this catalog. In general, the following Professional Studies courses must be satisfactorily completed:

EDU 211	School and Society	4 sh
EDU 322	Reading in the Content Areas	2 sh
One of the following courses:		4 sh
EDU 423	Materials and Methods of Teaching Physical Education	
EDU 427	Materials and Methods of Teaching Health and Safety	
EDU 428	Materials and Methods of Teaching Foreign Languages	
MUS 461	Music Education in the Public Schools	
EDU 430	Foundations of Education	3 sh
EDU 450	Meeting Special Learning Needs of Children (Not required for Physical Education majors)	3 sh
EDU 480	Student Teaching Seminar	2 sh
EDU 481	Supervised Observation and Student Teaching	10 sh
CIS 220	Computers and Teaching	3 sh
PSY 321	Educational Psychology	4 sh
TOTAL		35 sh

EDU 211. SCHOOL AND SOCIETY

4 sh

This course is designed to introduce students to the cultural, social, historical, legal and philosophical foundations of education. Students examine critical issues that impact education in the 21st century. An integrated field experience enables students to analyze a variety of perspectives on the purposes of education and instructional practices related to classroom management, learning environment and meeting the needs of learners who are diverse in culture, language and ability. Students will develop skills in critical thinking, leadership, observing, interviewing, reading, writing and oral communications. Offered fall, winter and spring.

121

EDU 311. PRINCIPLES OF LEARNING AND TEACHING I:

LANGUAGE ARTS AND SOCIAL STUDIES METHODS AND MATERIALS

8 sh

Students learn how to investigate, evaluate and select content, methods and materials used in organizing and teaching language arts and social studies in elementary school. They develop appropriate curricula and examine personal beliefs and dispositions. They design and implement differentiated lessons based on state standards and develop technology-enhanced, project-based learning units. They gain a sound pedagogical knowledge base, an understanding of the importance of inquiry and professionalism and have opportunities to participate in a community of learners. A concurrent practicum offers opportunities to apply concepts and skills. Prerequisites: EDU 211, PSY 321, CIS 220. Corequisite: EDU 323. Admission to Teacher Education Program. Offered fall and spring.

EDU 312. PRINCIPLES OF LEARNING AND TEACHING I:

MATHEMATICS AND SCIENCE METHODS AND MATERIALS

8 sh

Students learn how to investigate, evaluate and select content, methods and materials used in organizing and teaching mathematics and science in the elementary school. They develop appropriate curricula and examine personal beliefs and dispositions. They design and implement differentiated lessons based on state standards and develop technology-enhanced, project-based learning units. They gain a sound pedagogical knowledge base, an understanding of the importance of inquiry and professionalism and have

opportunities to participate in a community of learners. A concurrent practicum offers opportunities to apply concepts and skills. Prerequisites: EDU 211, MTH 210, PSY 321, CIS 220. Admission to Teacher Education Program. Offered fall and spring.

EDU 321. READING IN THE ELEMENTARY SCHOOL

4 sh

Study focuses on developing the philosophical framework, knowledge and methodology necessary for planning learning experiences to enhance students' language development. Key course components include theory and process, pedagogy, assessment, the learner and professional development. Prerequisites: EDU 211, PSY 321. Corequisites: EDU 311, 312, 411 or 412. Admission to the Teacher Education Program. Offered fall and spring.

EDU 322. READING IN THE CONTENT AREAS

2 sh

The focus of this course is on reading strategies to guide middle school and high school instruction. Prospective teachers apply readability formulas to content area readings and design activities to promote vocabulary development, comprehension, study skills and writing. Prerequisites: EDU 211, PSY 321. Offered fall and spring.

EDU 323. LITERACY DEVELOPMENT I: PRINCIPLES AND PRACTICES

3 sh

This course involves the study of the fundamental processes by which a child learns to read both linear and non-linear communication. Attention is given to readiness factors, vocabulary development, word attack, comprehension skills, assessment, writing and reading, interest in reading, the interrelatedness of all areas of the language arts to the reading process, and the integration of technology into the development of literacy. A variety of methodologies and instructional strategies focusing on providing balanced reading instruction to meet diverse student strengths and needs include language experience, phonics, reading for meaning, literature circles, reading workshop, basal book, electronic book discussions, technology projects and monitoring reading progress. Prerequisites: EDU 211, PSY 321. Admission to the Teacher Education Program. Corequisites: EDU 311 or 312. Offered fall and spring.

EDU 324. LITERACY DEVELOPMENT II: STRATEGIES & INSTRUCTION FOR STRUGGLING READERS

3 sh

The focus of this course is on planning and modifying elementary classroom instruction to address the needs of children who, for a variety of reasons, experience difficulty in acquiring basic literacy skills. Emphasis is placed on using assessment of children's strengths and weaknesses to guide instructional decision making. Students practice administering a variety of diagnostic tools, interpreting the data, and using the information to design and, when warranted, modify instruction. They acquire skills necessary to design explicit, systematic instruction in phonemic awareness, decoding, spelling, reading fluency, vocabulary, reading comprehension and writing. Prerequisites: EDU 211, PSY 321 (for all students), and EDU 323 or EDU 441 (Middle Grades only). Admission to the Teacher Education Program. Corequisite: EDU 411 or 412. Offered fall and spring.

EDU 342. FOUNDATIONS OF SPECIAL EDUCATION

3 sh

This course addresses the evolution of the field of special education, its philosophical and theoretical foundations, legal underpinnings, and current trends and controversies. Emphasis is on acquiring a broad knowledge base regarding the characteristics of students with exceptional learning needs and the process and procedures for providing special education. Consideration is given to how issues of human diversity impact families, cultures and schools and how these issues affect delivery of special education services. Admission to the Teacher Education Program. Offered fall.

EDU 345. PLANNING AND MANAGING THE LEARNING ENVIRONMENT FOR STUDENTS WITH EXCEPTIONAL LEARNING NEEDS

4 sh

This course provides teacher candidates with the competencies and skills to use positive behavioral supports to establish a classroom environment that promotes the academic

and social development of students with exceptional learning needs. Candidates will learn to use strategies such as social skills training, functional behavioral assessment, cognitive problem solving and self-regulation of behavior. The needs of families and how to involve families in educational programming for their children are considered. Admission to the Teacher Education Program. Offered spring.

EDU 346. CLASSROOM MANAGEMENT

2 sh

This course focuses on the important aspects of establishing a healthy, positive classroom environment that promotes children's academic growth and social development. The role of the teacher in regard to managing student behavior will be explored from the cognitive, ecological and behaviorist perspectives. Teacher candidates are taught to take a proactive stance toward behavior management, thereby decreasing problem behaviors in the classroom. Included in this course are strategies for establishing a classroom in which children feel safe to take academic risks, as well strategies for effectively addressing specific behavior problems. The important role of family involvement will be discussed, as well as means of effectively inviting family members to form beneficial partnerships with classroom teachers. Elementary and Middle Grades only. Co-requisite: EDU 311, 312, 411, or 412. Admission to the Teacher Education Program.

EDU 347. NATURE AND NEEDS OF STUDENTS WITH LEARNING DISABILITIES

3 sh

A course designed to consider the specific area of disability in depth, including etiology, prevalence and characteristics. This course will review and analyze current practice and research on issues relating to the education of students with learning disabilities. Historical and legal aspects pertaining to the particular area of disability will be reviewed as well. Admission to the Teacher Education Program. Offered winter.

EDU 398. CHILDREN'S LITERATURE

4 sh

This course is a survey of children's literature, historical and contemporary. Students will read deeply and critically works from the United States and around the world as they develop an awareness of children's books and authors. Students will revisit and revise common stereotypes and misconceptions concerning children's literature to gain a clearer understanding of how effective literature speaks to children, reflects their experience and provides insight into themselves, people and the world. Students will gain an understanding of how children's literature can bring greater sensitivity and an alternative perspective to any course of study. Offered fall, winter and spring.

123

EDU 411. PRINCIPLES OF LEARNING AND TEACHING II:

LANGUAGE ARTS AND SOCIAL STUDIES METHODS AND MATERIALS

8 sh

Students learn how to investigate, evaluate and select content, methods and materials used in organizing and teaching language arts and social studies in the elementary school. They develop appropriate curricula and examine personal beliefs and dispositions. Building on knowledge acquired in PLT I, students design and implement integrated technology-enhanced, problem-based learning units, incorporating the elements of Universal Design (UD). National standards provide the context. They gain a more in-depth pedagogical knowledge base, a deeper understanding of the importance of inquiry and professionalism and have additional opportunities to participate in a community of learners. A concurrent practicum offers opportunities to apply concepts and skills. Prerequisites: EDU 211, PSY 321, CIS 220, EDU 312. Prerequisite or corequisite: EDU 324. Admission to Teacher Education Program. Offered fall and spring.

EDU 412. PRINCIPLES OF LEARNING AND TEACHING II:

MATHEMATICS AND SCIENCES METHODS AND MATERIALS

8 sh

Students learn to investigate, evaluate and select content, methods and materials used in organizing and teaching mathematics and science in the elementary school. They develop and implement appropriate curricula and examine personal beliefs and dispositions. Building on knowledge acquired in PLT I, students design and implement integrated technology-enhanced, problem-based learning units, incorporating the elements of Universal Design (UD). National standards provide the context. They gain a more in-

depth pedagogical knowledge base, a deeper understanding of the importance of inquiry and professionalism and have additional opportunities to participate in a community of learners. A concurrent practicum offers opportunities to apply concepts and skills. Prerequisites: EDU 211, PSY 321, CIS 220, EDU 311, MTH 210. Admission to Teacher Education Program. Offered fall and spring.

**EDU 421. MATERIALS AND METHODS OF TEACHING MIDDLE GRADES
AND SECONDARY ENGLISH**

4 sh

In this study of the content and organization of the English curriculum with emphasis on methods and materials used in teaching literature, language skills and composition, students review print and nonprint media, create lesson and unit plans, lead classroom discussions and conduct teaching demonstrations. Public school classroom observation and assistance are required. Prerequisites: EDU 211, PSY 321. Offered fall semester.

**EDU 422. MATERIALS AND METHODS OF TEACHING MIDDLE GRADES AND
SECONDARY MATHEMATICS**

4 sh

Students study the objectives and content of the mathematics curriculum in grades 6-12, including the materials, techniques and methods of evaluation used in teaching mathematics in middle and high school grades. A practicum in the public schools is required. Prerequisites: EDU 211, PSY 321. Offered fall semester.

EDU 423. MATERIALS AND METHODS OF TEACHING PHYSICAL EDUCATION

4 sh

This course covers the methods, materials and techniques of teaching physical education, including organization and planning of the total curriculum and daily programs. Students also observe and conduct activity classes. Public school practicum required. Prerequisites: EDU 211, PSY 321. Offered fall semester.

**EDU 424. MATERIALS AND METHODS OF TEACHING MIDDLE GRADES AND
SECONDARY SCIENCE**

4 sh

Students develop, select and evaluate content, methods and materials used in teaching science at the middle or high school level. Study examines current trends in teaching the natural sciences and addresses safety concerns. Observations and practicum in middle and/or high schools required. Prerequisites: EDU 211, PSY 321. Offered fall semester.

**EDU 425. MATERIALS AND METHODS OF TEACHING MIDDLE GRADES
AND SECONDARY SOCIAL STUDIES**

4 sh

This study of the materials and methods of teaching social studies emphasizes planning, organization, objectives and evaluation. Public school practicum required. Prerequisites: EDU 211, PSY 321. Offered fall semester.

EDU 427. MATERIALS AND METHODS OF TEACHING HEALTH AND SAFETY

4 sh

This course emphasizes methods of curriculum planning, analyzing and developing content area, unit plans and teaching approaches for all levels of school (K-12). Public school practicum required. Prerequisites: EDU 211, PSY 321. Offered fall semester, even-numbered years.

EDU 428. MATERIALS AND METHODS OF TEACHING FOREIGN LANGUAGES

4 sh

This study of the content and organization of the foreign language curriculum in the public schools emphasizes methods and materials used in teaching at all levels (K-12) and covers how teaching the four basic skills and the target culture varies at each level. Students discuss theories of planning, instruction, choice of materials and evaluation, and gain practical experience by participating in a public school classroom. Prerequisites: EDU 211, PSY 321. Offered fall semester.

EDU 430. FOUNDATIONS OF EDUCATION

3 sh

This foundations course is a study of the historical development and philosophical basis for public education in the U.S., including the role and influence of schools in society

and the teacher's role as it has emerged from the philosophies, practices and policies of public education. Offered fall and spring.

EDU 435. ASSESSMENT METHODS AND INTERPRETATION IN SPECIAL EDUCATION 4 sh

This course provides teacher candidates with knowledge required to design assessment plans for students with exceptional learning needs. Consideration is given to legal policies and ethical principles in regard to the administration and interpretation of assessment procedures. Candidates learn to evaluate standardized assessment instruments in terms of reliability, validity and adequacy of norm sample and to collaborate with families and other professionals to gather information and share assessment results.

Admission to the Teacher Education Program. Offered spring.

EDU 441. FOUNDATIONS OF MIDDLE LEVEL EDUCATION 3 sh

This course provides a foundation for middle level (6-9) education majors with concentrations in math, science, social studies and language arts. The course explores the unique physical, intellectual, social and personal characteristics of the young adolescent (age 10-14) with implication for curriculum development and instruction. Emphasis is on young adolescent learning needs, middle school philosophy and organization, classroom diversity with emphasis on students with limited English proficiency, responsive curriculum design and scholarly research related to issues of diversity, access to learning, and literacy; management of the learning environment; and professional leadership.

Prerequisites: Admission to program. Offered fall.

EDU 442. EFFECTIVE MIDDLE LEVEL TEACHING 4 sh

This course is designed for middle grades majors (6-9) with concentration areas in math, science, social studies and language arts. The course builds upon and extends the foundational experiences in EDU 441 through in-depth exploration of theory as related to young adolescent learning; focused inquiry, collaboration and teaching on middle level interdisciplinary teams; service learning instructional design; and scholarly research related to issues of diversity, access to learning, and literacy; management of the learning environment; and professional leadership. Prerequisite: EDU 441. Offered spring.

EDU 444. LANGUAGE, LITERACY AND MATHEMATICS METHODS IN SPECIAL EDUCATION 4 sh

In this course, teacher candidates become familiar with the theory and research base on effective instructional techniques for children with exceptional learning needs. They learn how to apply specific methods that involve explicit, systematic and intensive instruction to help children with learning difficulties acquire foundational skills in reading, language arts and mathematics. Candidates learn to use curriculum-based assessment as a basis for planning, monitoring and modifying instruction. Admission to the Teacher Education Program. Offered fall.

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EDU 445. TEACHING AND LEARNING STRATEGIES FOR STUDENTS WITH EXCEPTIONAL LEARNING NEEDS 4 sh

This course focuses on effective teaching and learning strategies for adolescents with mild to moderate learning needs. The course emphasizes strategies that reflect a cognitive/metacognitive instructional approach to learning. Consideration is given to the use of technology as a tool for learning and to the assessment of strategy effectiveness by monitoring student progress. Teacher candidates learn to consider learning environments, cultural, linguistic and socioeconomic factors in addition to student abilities in their selection and use of strategies. Admission to the Teacher Education Program. Offered fall.

EDU 450. MEETING SPECIAL LEARNING NEEDS OF CHILDREN 3 sh

This course prepares teachers for using individualized programs for students with special learning needs. Students survey the literature related to instruction of these students, including assessing individual needs and modes of learning with implications for mainstreamed classroom teaching. Secondary Education majors only. Admission to the Teacher Education Program. Offered fall and spring.

EDU 451. TEACHING DIVERSE LEARNERS**4 sh**

This course is designed to prepare elementary and middle grades teacher candidates to work effectively in inclusive classrooms. The course is comprised of four modules: I. The Ideas in IDEA, which introduces candidates to the historical and legal factors that have contributed to practices governing students with special needs; II. The Differentiation of Instruction, which acquaints candidates with a means for providing flexible and equitable instruction and assessment; III. The Management of Behavior, which encourages candidates to analyze the causes of behavior and provide systems of positive behavioral support; IV. Respectful Collaboration, which promotes linkages with families, colleagues and community agencies to enhance the educational experiences of diverse learners. Elementary and middle grades majors only. Co-requisite: EDU 311, 312, 411 or 412, admission to the Teacher Education Program.

EDU 480. STUDENT TEACHING SEMINAR**2 sh**

This seminar focuses on classroom management strategies, legal aspects of teaching, the teacher as decision maker and creating a professional development plan. Must be taken concurrently with EDU 481. Offered fall and spring. Secondary majors only.

EDU 481. SUPERVISED OBSERVATION AND STUDENT TEACHING**10 sh**

Students experience the classroom full time for one semester, with periodic conferences with the university supervisor(s) and classroom teacher(s). The student becomes acquainted with the duties and observes the methods and activities of an experienced teacher, with gradual induction into full-time teaching responsibilities. Corequisite: EDU 480. Prerequisites: EDU 211 and grade of C or better in appropriate methods course(s). Offered fall and spring.

EDU 482. CRITICAL ISSUES IN EDUCATION: CAPSTONE SEMINAR I**2 sh**

This course is an inquiry-based capstone course that explores social, historical, political and philosophical issues that impact K-12 education nationally and internationally. Special emphasis is placed in diversity and equality issues, leadership, community service and ethical advocacy. Students are involved in a leadership/diversity project that involves local or international service learning or scholarly inquiry. Prerequisite: Admission to Teacher Education Program. This course is to be taken the semester prior to student teaching. Elementary, Middle Grades and Special Education majors only.

EDU 483. REFLECTIVE ANALYSIS OF PRACTICE: CAPSTONE SEMINAR II**2 sh**

This course is an inquiry-based capstone seminar that is taken concurrently with student teaching. It is designed to strengthen the professional skills of reflection as related to instructional practice, assessment of student learning and analysis of personal philosophy. Emphasis is placed on leadership, ethical advocacy and family-community relationships. Corequisite: EDU 481. Elementary, Middle Grades and Special Education majors only.

EDU 499. RESEARCH**1-4 sh**

Students engage in undergraduate research under the direction of an education department faculty member. Maximum of eight semester hours total credit. Prerequisites: eligibility as determined by the undergraduate research guidelines of Elon University and approval by the department.

Engineering

Director: Associate Professor D'Amato

Assistant Professor: Hargrove-Leak

Engineers have the opportunity to be of profound service to humanity. Engineering means problem solving. Through the application of mathematics and science, an engineer may be solving problems dealing with energy, space exploration, environmental issues, product manufacturing, construction or any number of interesting areas of study. Possible engineering disciplines include aerospace engineering, biomedical engineering, chemical engineering, civil engineering, computer engineering, electrical engineering, environmental engineering, industrial engineering, materials science engineering, mechanical engineering, nuclear engineering and textile engineering.

The unique dual-degree engineering programs at Elon support students in working toward two degrees: one from Elon and one from an engineering university. Elon currently has affiliations with North Carolina State University, Georgia Tech, Virginia Tech, Columbia University, Washington University in St. Louis and North Carolina A&T State University. The student will complete three years at Elon. These years will include a full array of science, mathematics, computer science and general studies courses along with their discipline-specific courses. Also included will be foundational engineering courses every fall and spring taught by engineering faculty. After finishing these three years at Elon and also satisfying the entry requirements of the affiliate engineering university, the student will transfer to this engineering institution, normally for two more years. Upon completion of these years of study, a student will receive either a B.S. degree from Elon in Engineering Physics, Environmental Studies/Environmental Engineering or Engineering Mathematics or an A.B. degree in Chemistry/Chemical Engineering or Computer Science/Engineering. Students will also receive a B.S. degree from the engineering school in an engineering area of choice. Students must complete Elon's General Studies program requirements, the engineering core and one of the five options listed below.

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All dual-degree engineering programs require the following core courses:

CHM 111	General Chemistry I	3 sh
CHM 113	General Chemistry I Lab	1 sh
CHM 112	General Chemistry II	3 sh
CHM 114	General Chemistry II Lab	1 sh
PHY 113	General Physics I with Calculus w/lab	4 sh
PHY 114	General Physics II with Calculus w/lab	4 sh
MTH 121	Calculus and Analytic Geometry I	4 sh
MTH 221	Calculus and Analytic Geometry II	4 sh
MTH 321	Calculus and Analytic Geometry III	4 sh
MTH 421	Differential Equations	4 sh
CSC 130	Introduction to Computer Science	4 sh

TOTAL		36 sh
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Engineering Foundations

EGR 101	Introduction to Engineering	1 sh
EGR 102	Introduction to Engineering Graphics and Design	2 sh
EGR 206	Engineering Mechanics - Statics	3 sh

EGR 208	Engineering Mechanics - Dynamics	3 sh
EGR/PHY 211	Circuit Analysis	3 sh
EGR/PHY 212	Circuit Analysis Lab	1 sh
EGR/PHY 310	Engineering Thermodynamics	4 sh
TOTAL		17 sh

The student will select one of the following five options:

I. Engineering Physics

PHY 213	Introduction to Modern Physics	4 sh
PHY 311	Classical Electrodynamics	4 sh
PHY 397-98	Physics Lab/Seminar	4 sh
Eight semester hours of Physics at the 300-400 level (excluding PHY 305)		8 sh
TOTAL		20 sh

II. Engineering Mathematics

MTH 231	Mathematical Reasoning	4 sh
MTH 311	Linear Algebra	4 sh
MTH 312	Abstract Algebra	4 sh
MTH 341	Probability Theory and Statistics	4 sh
MTH 415	Numerical Analysis	4 sh
CSC 230	Algorithm Development	4 sh
TOTAL		24 sh

III. Computer Science/Engineering

MTH 206	Discrete Structures	4 sh or
MTH 231	Mathematical Reasoning	4 sh
CSC 230	Algorithm Development	4 sh
CSC 331	Algorithm Analysis	4 sh
CSC 342	Computer Organization and Architecture	4 sh
CSC 351	Theory of Computation	4 sh
CSC 441	Operating Systems/Networking	4 sh

In addition, one upper-level course in programming languages at another institution (if electrical or computer engineering). For another engineering degree, an additional upper level CSC course is required.

TOTAL		28 sh
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IV. Chemistry/Chemical Engineering

CHM 125	The Chemical Literature	1 sh
CHM 205	Inorganic Chemistry I	4 sh
CHM 211	Organic Chemistry I	3 sh
CHM 213	Organic Chemistry Lab I	1 sh
CHM 212	Organic Chemistry II	3 sh
CHM 214	Organic Chemistry Lab II	1 sh
CHM 311	Quantitative Analysis	4 sh

CHM 332	Physical Chemistry I	4 sh
CHM 461	Senior Seminar	1 sh
TOTAL		22 sh

V. Environmental Studies/Environmental Engineering

POL 224	Environmental Policy and Law	4 sh
REL 348	Environmental Ethics	4 sh
ENS 461	Senior Seminar	4 sh
CHM 211/213	Organic Chemistry I w/Lab	4 sh
BIO 112/114	Intro Population Biology w/Lab	4 sh
BIO 452	General Ecology	4 sh
ENS 215	Organismal Biology and Field Techniques	4 sh
ENS 381	Internship (during summer)	2-4 sh
CE 323	Earth Systems Chemistry at engineering school	4 sh
CE 373	Fundamentals of Env. Engineering at engineering school	3 sh
ST 370	Probability and Statistics for Engineers at engineering school	3 sh
TOTAL		40-42 sh

EGR 101. INTRODUCTION TO ENGINEERING 1 sh

This course provides general information on engineering disciplines, common engineering practices, the engineering profession and history; engineering education, engineering design, engineering ethics and engineering opportunities from the instructor and/or invited speakers. Preliminary work on a design project will be undertaken by student teams. Offered fall.

EGR 102. INTRODUCTION TO ENGINEERING GRAPHICS AND DESIGN 2 sh 129

This course introduces the student to graphics as used by engineers. Both hand sketching and computer graphics will develop the student's ability to communicate graphically. This course also investigates the engineering design process. Students will work in teams to acquire a client and design a solution to meet the needs enumerated by this client. This design project is a continuation of design work done in EGR 101. Each aspect of the design process will be discussed. Several exercises will attempt to develop the student's creativity, clarity and focus of thought. The semester will end with a full presentation of each team's design work which will incorporate their newly acquired graphics ability. Offered spring.

EGR 206. ENGINEERING MECHANICS - STATICS 3 sh

This course is designed to introduce students to the effects of forces on bodies in static equilibrium and to familiarize them with mathematical techniques for finding reactive forces in bodies, frames, mechanics and trusses. Concepts covered include forces, moments, couples, equilibrium of rigid bodies, centroids, moments of inertia and friction resistance. Prerequisite: PHY 113. Corequisite: MTH 221. Offered fall.

EGR 208. ENGINEERING MECHANICS - DYNAMICS 3 sh

Kinematics and kinetics of particles in rectangular, cylindrical and curvilinear coordinate systems; energy and momentum methods for particles; kinetics of systems of particles; kinematics and kinetics of rigid bodies in two and three dimensions; and motion relative to rotating coordinate systems are studied. Prerequisites: EGR 206 and MTH 221. Corequisite: MTH 321. Offered spring.

EGR 211. CIRCUIT ANALYSIS

3 sh

This course is an introduction to the theory, analysis and design of electric circuits. Studies include circuit parameters and elements: voltage, current, power, energy, resistance, capacitance, inductance. Also included is the application of Kirchhoff's laws, techniques of circuit analysis, the op-amp, the responses of RL, RC and RLC circuits, an introduction to sinusoidal steady-state analysis, Laplace transforms and Fourier series. Prerequisites: MTH 421 and PHY 114. Corequisite: EGR/PHY 212. Offered spring.

EGR 212. CIRCUIT ANALYSIS LAB

1 sh

This course involves laboratory application of concepts and principles discussed in EGR 211. Corequisite: EGR/PHY 211. Offered spring.

EGR 310. ENGINEERING THERMODYNAMICS

4 sh

This course introduces the concept of energy and the laws governing the transfers and transformations of energy. Study emphasizes thermodynamic properties and First and Second Law analysis of systems and control volumes. Integration of these concepts into the analysis of basic power cycles is introduced. Prerequisites: MTH 421 and PHY 114. Offered fall.

EGR 381. INTERNSHIP IN ENGINEERING

1-4 sh

The internship provides advanced work experiences in some aspect of engineering. It is offered on an individual basis, under the guidance of the engineering program director, when suitable opportunities can be arranged. It will typically be taken in the summer of the sophomore year. This experience will broaden the practical work experience of the student and enhance his/her classroom abilities. Prerequisite: permission of the department. Offered summer.

English

Chair, Department of English: Professor Lyday-Lee

Professors: Angyal, Blake, Bland, Boyle, Braye, Gill, Haskell, Warman

Associate Professors: Cassebaum, Gordon, Mackay, Peebles, Schwind

Assistant Professors: Hairston, Kapper, Kircher, Layne, Myers, Nickoson-Massey, Perry, Rosinski

Lecturer: Holmes, Strickland

The field of English involves the theoretical study of literature, language and writing, as well as the practice of literary criticism and analysis, creative writing and other kinds of writing. The English department provides a balanced curriculum that includes all these elements. A group of five core courses in literature, language study and writing beyond the freshman level ensures that English majors have experience in the three principal areas of the discipline. In addition to the common core, the English curriculum also encourages majors to follow their own talents and interests by requiring one of four distinct concentrations: literature, professional writing and rhetoric, creative writing or English teacher licensure. Double concentrations in the major or minors in literature and creative writing, along with interdisciplinary minors in professional writing and multimedia authoring, are additional options.

A NOTE ON THE GENERAL STUDIES LITERATURE COURSE REQUIREMENT

With the exception of film studies courses, ENG 200 and department courses in the 220-279 and 320-379 range normally fulfill the General Studies literature requirement in Studies in Arts and Sciences.

English department courses in the 201-219 and 301-319 range (i.e., courses in language study, writing and creative writing) do NOT normally fulfill that requirement.

A major in English requires 44 semester hours. The core requirements, above ENG 110, are:

An ENG 200-level literature course	4 sh
Majors in Literature concentration must choose a survey course from ENG 221-224	
Majors in English Teacher Licensure concentration must choose either ENG 221 or 222	
An ENG 200-level or above writing course (ENG 210-219; 310-319)	4 sh
Majors in Creative Writing concentration must take ENG 213, Introduction to Creative Writing	
Majors in English Teacher Licensure concentration must take ENG 219, Writing Studies Survey	
An ENG 200-level or above language course (ENG 201-209; 301-309)	4 sh
Majors in Professional Writing and Rhetoric concentration must take ENG 304, Understanding Rhetoric	
Majors in English Teacher Licensure concentration must take ENG 205, Grammar	
One 300-level literature course	4 sh
ENG 321, Classical Literature is strongly recommended for majors in English Teacher Licensure concentration.	
One 300-level English course, preferably outside one's concentration	4 sh
ENG 302, History of the English Language is strongly recommended for majors in English Teacher Licensure	
TOTAL	20 sh

Students must also complete one of the following concentrations:

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Literature Concentration

Core courses	20 sh
One additional survey course from ENG 221-224	4 sh
Four additional 200-300-level literature courses chosen from at least 3 of the following categories:	16 sh
Historical Studies (ENG 320-329)	
Cultural Studies (ENG 330-339)	
Author Studies (ENG 340-349)	
Genre Studies (ENG 350-359)	
Critical Practice and Theory (ENG 200, 250, 333, 362)	
ENG 495 Senior Seminar: Literature	4 sh
Other requirements:	
At least one literature course must have a global/multicultural designation	
At least two literature courses must have a pre-1800 designation	
At least 20 hours of literature must be at the 300-level or above	
A course may satisfy multiple requirements if possible	

TOTAL	44 sh
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Professional Writing and Rhetoric Concentration

Core courses	20 sh
ENG 215 Introduction to Professional Writing and Rhetoric	4 sh
ENG 397 Writing as Inquiry	4 sh
Concentration Electives:	12 sh
A 200-level English course	
A 300-level English course	
ENG 411 Special Topics in Professional Writing and Rhetoric or a 4-hour internship	
ENG 497 Senior Seminar: Professional Writing and Rhetoric	4 sh
TOTAL	44 sh

Teacher Licensure Concentration

Core courses	20 sh
ENG 206 Introduction to TESOL	4 sh
ENG 223, 224, 238 or 239 (American Literature)	4 sh
ENG 331, 335, 337 or 338 (World Literatures)	4 sh
ENG 319 Writing Center Workshop	4 sh
ENG 342 Shakespeare	4 sh
ENG 495 Senior Seminar: Literature	4 sh
Set of Professional Courses	35 sh
TOTAL	79 sh

Creative Writing Concentration

Core courses	20 sh
Choose two of the following:	8 sh
ENG 315 Intermediate Nonfiction	
ENG 316 Intermediate Poetry	
ENG 317 Intermediate Fiction	
Choose two of the following:	8 sh
ENG 366 Contemporary Writers	
ENG 351 The Novel	
ENG 353 Poetry	
ENG 354 Short Stories	
ENG 356 Nonfiction	
300-level or above literature course	
Choose one of the following:	4 sh
ENG 413 Advanced Creative Writing	
200-400-level English elective	
ENG 496 Senior Seminar: Creative Writing	4 sh
TOTAL	44 sh

Double Concentrations

Students are encouraged to pursue a double concentration, either to combine liberal arts and pre-professional training (creative writing/professional writing or literature/professional writing) or to study the interconnectedness of writing and reading (literature/cre-

ative writing). Completing a dual concentration in English requires a capstone experience in each concentration. For more information, see your English major advisor or the English Department chair.

A minor in English requires the following courses above ENG 110. Students may choose either a literature minor or one of the writing minors.

Literature Minor

One Critical Theory and Practice course	4 sh
ENG 200 Critical Conversations in Literary Studies	
ENG 250 Interpretations of Literature	
ENG 333 Women in Literature: Feminist Approaches	
ENG 362 Film Criticism	
One ENG elective	4 sh
Three additional ENG literature courses, at least one of which must be designated pre-1800	12 sh
(At least 8 sh of literature courses must be at the 300-level or above.)	

TOTAL	20 sh
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Creative Writing Minors

ENG 213 Creative Writing	4 sh
Two or three of the following:	8-12 sh
ENG 315 Intermediate Creative Writing: Nonfiction	
ENG 316 Intermediate Creative Writing: Poetry	
ENG 317 Intermediate Creative Writing: Fiction	
One or two of the following:	4-8 sh
ENG 366 Contemporary Writers	
Genre courses (ENG 351, 352, 353, 354, 355, 356)	
ENG 413 Advanced Creative Writing Workshop	

TOTAL	20 sh
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Professional Writing Minor: See Professional Writing Studies

Multimedia Authoring Minor: See Multimedia Authoring

ENG 100. INTRODUCTION TO COLLEGE WRITING **4 sh**

This is a writing workshop focusing on invention, organization, revision and editing skills. A grade of "C-" or better required for admission to ENG 110. Elective credit only. Offered fall.

ENG 106. ANALYTICAL READING **4 sh**

Analytical reading is a course designed to help students understand, analyze and retain college-level reading material. Elective credit only. Offered spring.

ENG 110. COLLEGE WRITING **4 sh**

In this first-year course emphasizing invention, peer response, revising and editing, students learn to develop and make assertions, support them with appropriate evidence and present them in public form. Students also learn that the style and content of their writing will affect their success in influencing audiences. A grade of "C-" or better required for graduation. Offered fall and spring.

ENG 200. CRITICAL CONVERSATIONS IN LITERARY STUDIES

4 sh

This course develops the research and writing skills that are essential for producing informed, independent and original literary criticism. Students will learn not only how to evaluate and synthesize the arguments of published critics and theorists, but also how to enter and extend critical arguments or conversations about selected works of literature by advancing interpretations and theories of their own. This course can satisfy either a writing OR a literature requirement within the English major. Prerequisite: ENG 110

ENG 205. GRAMMAR

4 sh

This study of the English language includes the evolution of prescriptive and descriptive grammars, terminology, parts of speech and function, grammatical structures and correct usage of standard written English. Prerequisite: ENG 110.

ENG 206. INTRODUCTION TO TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES

4 sh

This course will provide an introduction to second language acquisition and the theory and practice of teaching English to speakers of other languages (TESOL). Readings, class discussions and projects will focus on pedagogy and assessment in reading, writing, listening and speaking for ESL students. Prerequisite: ENG 110

ENG 211. STYLE AND EDITING

4 sh

This course explores theories and processes of editing in professional writing and discusses the profession of editing: what it is that professional editors do, what it takes to become an effective editor, what the editorial process looks like (from acquisitions editing to indexing) and the effects of technology. Students will explore sectors in which editors might find themselves working and will learn about and practice substantive editing, stylistic editing, copy editing and proofreading. Prerequisite: ENG 110

ENG 212. WRITING, RHETORIC AND INTERFACE DESIGN

4 sh

This course provides students with the theoretical and practical background necessary to approach the design of interfaces from a user's perspective and as a reflective practice. The students will also develop a rhetorical foundation for analyzing and producing primarily screen-based interfaces. The course emphasizes a process-orientated approach to design wherein design includes rigorous and disciplined attention to planning, research, revision and production. Moreover, students learn to focus on design from a rhetorical perspective, one that balances writers' goals, users'/readers' needs and text design possibilities. Prerequisite: ENG 110.

ENG 213. CREATIVE WRITING

4 sh

For this workshop, students interested in writing poems and short stories may be assigned additional texts for discussion of technique or form. Prerequisite: ENG 110. Offered fall and spring.

ENG 214. CREATIVE WRITING: POETRY READING/WRITING

4 sh

Along with readings of 20th century British, Irish and American poetry, students from all levels spend equal amounts of time discussing their own and others' poems. Study also includes reading quizzes, writing journals and poetry assignments. Prerequisite: ENG 110.

ENG 215. INTRODUCTION TO PROFESSIONAL WRITING AND RHETORIC

4 sh

This course is designed to introduce students to the study and practice of professional writing from the perspective of rhetoric, one of the oldest liberal arts. Students will learn about the wide range of possibilities connected to the broad term "professional writing," understand what assuming a rhetorical perspective on writing means, gain a broad sense of the issues, topics and practices that mark the field of professional writing and rhetoric, become part of the ongoing conversations that make up the field, understand professional writing and rhetoric as a socially situated art and practice, gain some practical, hands-on experience through a variety of professional writing projects and integrate scholastic research into reflective professional practice. Offered fall.

- ENG 219. WRITING STUDIES SURVEY** 4 sh
 This course examines theories of composition and literacy and explores the implications for our understanding of writing's impact on our personal, public and professional lives. Students will study topics such as writing pedagogy (writing as a process, peer response, editing, revision, response and assessment); the relationship between writing and literacy; writing and testing; writing and electronic texts; various technologies' effect on the production and style of writing; and the political, social and cultural politics of writing. Prerequisite: ENG 110
- ENG 221. BRITISH LITERATURE I** 4 sh
 This study of British literature in its social and cultural contexts emphasizes the close reading of texts from the Anglo-Saxon, Medieval and Renaissance periods through the Enlightenment. Satisfies departmental pre-1800 requirement. Prerequisite: ENG 110. Offered fall and spring.
- ENG 222. BRITISH LITERATURE II** 4 sh
 This study of British literature in its social and cultural contexts — from the Romantic, Victorian and Modernist periods through the present — emphasizes the close reading of texts representing the diversity of modern British literary expression. Prerequisite: ENG 110. Offered fall and spring.
- ENG 223. AMERICAN LITERATURE I** 4 sh
 This study of American literature in its social and cultural contexts — from Colonial and Revolutionary periods through the Romantic period — emphasizes the close reading of texts to examine American literary culture from its origins to the post-Civil War era. Prerequisite: ENG 110. Offered fall and spring.
- ENG 224. AMERICAN LITERATURE II** 4 sh
 This study of American literature in its social and cultural contexts — from the post-Civil War era, Progressive and Modernist periods up to the present — involves close reading of selected texts to stress the expansion of the American literary canon. Prerequisite: ENG 110. Offered fall and spring.
- ENG 231. INTRODUCTION TO WORLD LITERATURE** 4 sh 135
 This course provides an introduction to the study of selected works from European, Asian, African and Latin American literatures (in English translation) with emphasis on literary traditions and genres. Satisfies the departmental global/multicultural requirement. Prerequisite: ENG 110. Offered spring of alternate years.
- ENG 238. AFRICAN-AMERICAN LITERATURE BEFORE 1945** 4 sh
 This course traces the development of the themes of protest, accommodation and escapism found in the fiction, poetry and drama of African-American writers before 1945. Satisfies the departmental global/multicultural requirement. Prerequisite: ENG 110. Offered fall of alternate years.
- ENG 239. AFRICAN-AMERICAN LITERATURE SINCE 1945** 4 sh
 An examination of works by major African-American writers since 1945 focuses on making connections between writers. Satisfies the departmental global/multicultural requirement. Prerequisite: ENG 110. Offered spring of alternate years.
- ENG 250. INTERPRETATIONS OF LITERATURE** 4 sh
 Interpretations of Literature employs different critical approaches to interpret and evaluate poetry, drama and fiction from a variety of cultures. Prerequisite: ENG 110. Offered fall and spring.
- ENG 251. ENGLISH STUDIES IN BRITAIN** 4 sh
 A study-tour based in London emphasizes the theatre and places of literary and cultural importance. The course includes excursions to such places as Stratford-upon-Avon, Stonehenge and Canterbury. This course satisfies the General Studies literature requirement. Winter term only.

ENG 255. TOPICS IN LITERATURE**4 sh**

Courses taught under this number will introduce students to the study of several different genres of literature. The reading selections will explore a theme such as Urban Life, Family, the Holocaust, Spiritual Life, Cultures in Contact, Business and Literature. The course is especially recommended for students who are not English majors. It fulfills the General Studies literature requirement. Offered fall and spring. Prerequisite: ENG 110.

ENG 266. LITERATURE OF TERROR AND THE SUPERNATURAL**4 sh**

A study of the elements of terror and the supernatural in selected literary works that are designed to inspire fear. Representative authors include Samuel Taylor Coleridge, Edgar Allan Poe, Henry James and Stephen King. Extensive use of videos. Offered in winter. Prerequisite: ENG 110.

Language Studies

This selection of courses centers on studies in the structure and historical development of the English language and in the theory of rhetoric and composition.

ENG 302. HISTORY OF THE ENGLISH LANGUAGE**4 sh**

This study traces the historical development of the English language from its Indo-European origins to the present. Prerequisite: ENG 110. Offered fall.

ENG 303. LINGUISTICS**4 sh**

Linguistics is the study of the systems of language, including the phonology, morphology, semantics and varieties (social and regional) of the English language. Prerequisite: ENG 110.

ENG 304. UNDERSTANDING RHETORIC**4 sh**

This course surveys the history and theories of rhetoric, one of the oldest disciplines, for centuries promoted as one of the primary liberal arts, and long understood as crucial to the development of effective citizens and leaders for democratic life. Students will explore the dynamic and culturally influenced history of rhetoric, gain an understanding of diverse rhetorical theories, and examine such issues as the scope of rhetoric, its functions, its processes and the ways it is associated with other disciplines. Prerequisite: ENG 110

ENG 305. AMERICAN ENGLISH**4 sh**

This course examines the development of American English from the 16th-century influences of Jamestown and Massachusetts settlers to Creoles developing along the Mexican border and in Florida. Study includes regional and social varieties of English, phonetics and literature that employs dialects. Prerequisite: ENG 110.

Advanced Writing

Courses in this group are specifically designed to provide practice in different kinds of writing beyond the introductory level.

ENG 310. CROSS-CULTURAL RHETORICS**4 sh**

Cross-Cultural Rhetorics examines how professional writing and rhetoric are affected by the cultural and social expectations of international communities. In addition to investigating and comparing examples of the discourse expectations for texts produced in several international contexts, the course will explore the growing use of English as a language of international business and politics and will examine the language's impact on the rhetorical situations in which it is used. Prerequisite: ENG 110

ENG 311. COLLABORATION AND PUBLICATIONS MANAGEMENT**4 sh**

This course is designed as an extended, hands-on exploration of collaborative writing and its relationship to professional writing. Students read, think and write about the theories and practices of collaborative learning and writing, while studying how those

theories relate to the roles we assume as professional writers. Students will develop an understanding of collaborative writing as a complex social, political and rhetorical act; and will strive to articulate a careful consideration of the ethical responsibilities collaborative writing must acknowledge and negotiate. Prerequisite: ENG 110

ENG 312. VISUAL RHETORIC AND DOCUMENT DESIGN 4 sh

This course introduces students to the specialized study and practice of visual rhetoric and document design. Emphasizing the rhetorical nature of visuals and design, the course draws attention to the thinking, processes and skills that are part of design, with specific attention to the design of various documents professional writers encounter. Students will be introduced to a variety of theories and design approaches. In addition to studying this content, they will have opportunities to apply and reflect on what they have learned. Prerequisite: ENG 110.

ENG 315. INTERMEDIATE CREATIVE WRITING: NONFICTION 4 sh

In this writing workshop, students develop a specific aspect of writing ability (e.g., voice, stylistics) or practice a particular type of writing (e.g., essay, biography, travel writing). Focus changes each semester. Prerequisite: ENG 110.

ENG 316. INTERMEDIATE CREATIVE WRITING: POETRY 4 sh

This workshop, centered around students' poems, also includes study of 20th century poetry (occasionally earlier) to learn poetic techniques and to recognize the many possibilities of poetic forms, subjects and voices. Prerequisite: ENG 110 and ENG 213 or permission of instructor. Offered fall.

ENG 317. INTERMEDIATE CREATIVE WRITING: FICTION 4 sh

This workshop, centered around students' stories, also includes study of 20th century fiction (occasionally earlier) to learn techniques and to recognize possibilities for point of view, characterization, structure and diction. Prerequisite: ENG 110 and ENG 213 or permission of instructor.

ENG 318. SCIENTIFIC AND TECHNICAL COMMUNICATION 4 sh

This course examines the complex nature and practice of scientific and technical discourse. Although open to anyone with an interest in this topic, the course is designed especially for students majoring in the sciences who want to improve the professional writing skills necessary for successful careers in their chosen fields and students majoring in writing or communications who wish to pursue careers as technical and scientific communicators. Prerequisite: ENG 110.

ENG 319. WRITING CENTER WORKSHOP 4 sh

The Writing Center Workshop enhances students' writing ability while they learn to tutor writing. Students are required to tutor four hours each week in Elon's Writing Center. Strong writing abilities and interpersonal skills recommended. Prerequisite: ENG 110. Offered fall and spring.

Historical Studies

Courses in this group explore literature in historical, interdisciplinary and cross-cultural contexts.

ENG 321. CLASSICAL LITERATURE 4 sh

This study of ancient Greek and Roman literature and culture includes authors such as Homer, Plato, Sophocles, Ovid and Virgil, with readings from mythology, the great epics of the Trojan War, drama, philosophy and lyric poetry in modern translations. Satisfies departmental pre-1800 requirement and the departmental global/multicultural requirement. Prerequisite: ENG 110. Offered fall of alternate years.

ENG 322. MEDIEVAL LITERATURE 4 sh

This study of literature and culture of the European Middle Ages includes authors such as Dante, Chretien de Troyes, Chaucer and Malory, with readings from modern transla-

tions of epics such as *Beowulf* or *The Song of Roland*, poetry about love or religious experience such as *The Divine Comedy* or narratives about adventure and chivalry, such as legends of King Arthur. Satisfies departmental pre-1800 requirement. Prerequisite: ENG 110.

ENG 323. RENAISSANCE LITERATURE

4 sh

This study of British and Continental literature and culture of the 16th and early 17th centuries includes authors such as Sidney, Marlowe, Montaigne, Shakespeare and Cervantes. Readings in Renaissance English from Elizabethan and Jacobean drama, sonnet sequences, lyric and narrative poems, and precursors of the modern novel, such as *Don Quixote* are covered. Satisfies departmental pre-1800 requirement. Prerequisite: ENG 110.

ENG 324. ENLIGHTENMENT

4 sh

This study focuses on the great works of British, Continental and American literature during an age of reason and sensibility marked by industrial, scientific and political revolutions. Satisfies departmental pre-1800 requirement. Prerequisite: ENG 110.

ENG 325. ROMANTICISM

4 sh

Romanticism provides an interdisciplinary study of British, American and Continental Romantic literature in the context of art, music (especially opera), cultural life and intellectual history. Prerequisite: ENG 110.

ENG 326. REALISM AND THE LATER 19TH CENTURY

4 sh

This study involves an interdisciplinary look at British, American and Continental literary movements (realism, naturalism, symbolism and aestheticism), including reading selected masterworks in the context of the intellectual and cultural life of the period. Prerequisite: ENG 110.

ENG 327. 17TH CENTURY LITERATURE

4 sh

This study of "The Century of Genius" includes works by British and Continental authors who ushered in the modern world. Satisfies departmental pre-1800 requirement. Prerequisite: ENG 110.

ENG 328. MODERNISM

4 sh

This interdisciplinary study of modernism as a dominant intellectual movement of the 20th century explores topics such as alienation, the artist's role, the primitive, consciousness and the unconscious, human rights and the postmodern. The literature is supplemented by art, music and philosophical texts. Prerequisite: ENG 110.

Cultural Studies

Courses in this group emphasize the study of literature in its cultural context, often from the perspective of a particular social group. Regional, gender, ethnic and class issues are all possible concentrations.

ENG 330. APPALACHIAN LITERATURE

4 sh

A survey of 19th and 20th century Appalachian poetry, short and long fiction, drama, music, film and culture. Prerequisite: ENG 110.

ENG 331. ADVANCED WORLD LITERATURE

4 sh

Advanced study of selected works of European, Asian, African and Latin American literatures (in English translation), from historical and cultural critical perspectives. Offered fall of alternate years. Satisfies the departmental global/multicultural requirement. Prerequisite: ENG 110.

ENG 332. LITERATURE OF THE SOUTH

4 sh

Emphasis is given to major 20th century writers in this study of Southern literature, its background and themes. Prerequisite: ENG 110.

ENG 333. WOMEN IN LITERATURE: FEMINIST APPROACHES 4 sh

Women in Literature studies modern and traditional works of literature interpreted or reinterpreted from the perspective of feminist literary theories. Prerequisite: ENG 110.

ENG 334. NATIVE AMERICAN LITERATURE 4 sh

In an introduction to American Indian literature from the 18th century through the present, study includes special emphasis on contemporary writers of the Native American Renaissance. Satisfies the departmental global/multicultural requirement. Prerequisite: ENG 110.

ENG 335. LATIN AMERICAN LITERATURE AND CULTURE 4 sh

This course looks at recent Latin American literature mainly through the lens of history and politics, but economics, geography, music, art and religion will also be taken into consideration. Course content will be in the form of poems, short and long fiction, non-fiction and film. Taught in English translation. Satisfies the departmental global/multicultural requirement. Prerequisite: ENG 110.

ENG 336. PARIS AND THE EXPATRIATES 4 sh

This course explores the culture and remarkable inhabitants of 1920s Paris. It examines the varied nationalities of selected expatriates, why Paris attracted them and how it enriched them. Central figures of study include creative writers, performers, painters, photographers, essayists and entrepreneurs. Prerequisite: ENG 110

ENG 337. ASIAN LITERATURE OF SOCIAL CHANGE 4 sh

This course explores revolutionary democratic movements outside of the American tradition by studying 20th century Asian poetry, fiction and films, primarily of China and India. Offered irregularly. Satisfies the departmental global/multicultural requirement. Prerequisite: ENG 110.

ENG 338. THE AFRICAN EXPERIENCE IN LITERATURE 4 sh

This course studies the literature of a variety of African countries in relation to Africa's cultural traditions and its transition to modernity. Genres may include fiction, plays, poems, autobiographies and oral literature. Offered spring of alternate years. Satisfies the departmental global/multicultural requirement. Prerequisite: ENG 110.

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ENG 339. AMERICAN ENVIRONMENTAL WRITERS 4 sh

A study of the major American environmental and natural history writers with close attention to issues of environmental ethics, aesthetics of nature and cultural attitudes towards the environment. The authors studied are Thoreau, Muir, Leopold, Carson, Abbey, Lopez, Wilson and Snyder. The course will emphasize the growing ethical and aesthetic appreciation of nature in American culture and how the insights of environmental writers can be used to address the environmental crisis. Offered spring of alternate years. Prerequisite: ENG 110.

Author Studies

Courses in this group focus on the works of individual authors who have captured and continue to hold the imaginations of readers. Typical offerings include Hawthorne, Melville, Poe, Hardy, Dickinson, Cather and those listed below.

ENG 341. CHAUCER 4 sh

A close study of Chaucer's major works in the context of their medieval, intellectual and cultural background includes the greater portion of *The Canterbury Tales*, the dream visions and *Troilus and Cressida*. Prerequisite: ENG 110.

ENG 342. SHAKESPEARE 4 sh

Courses taught under this number examine the life and representative works of Shakespeare in the context of English culture of the late 16th and early 17th centuries. Typical offerings are "Shakespeare: Works" (selections from each of his genres),

"Shakespeare: Tragedies" or "Shakespeare: Comedies." Students may receive credit for more than one Shakespeare course in this category if the title is different. Satisfies the departmental pre-1800 requirement. Prerequisite: ENG 110.

ENG 343. HEMINGWAY **4 sh**

This course is a study of the Hemingway canon, including posthumous literature, published from the early 1920s to 2000. Emphasis will center on his various genres, where and how biography applies to interpretation of his work, his use of international locale and his artistic legacy. Prerequisite: ENG 110.

ENG 344. ROBERT FROST **4 sh**

This study of Frost's early development as a lyric poet focuses on the close reading of his poetry, criticism and masques in the context of New England regionalism and the emergence of Modernism in American letters. Prerequisite: ENG 110.

ENG 345. JANE AUSTEN **4 sh**

Background study of 18th- and 19th-century England and the development of the novel are part of this examination of the life and writings of Austen. Prerequisite: ENG 110.

ENG 348. MARK TWAIN **4 sh**

This course studies the life and work of Mark Twain as an American humorist, realist and social critic. Readings include *Roughing It*, *Innocents Abroad*, *The Gilded Age*, *Life on the Mississippi*, *Huckleberry Finn* and *Pudd'nhead Wilson*, as well as selected shorter works and later writings. Prerequisite: ENG 110.

Genre Courses

These courses offer studies in specific types of literature such as poetry, drama, the novel, the essay and the short story. Courses in genre include "kinds" of literature which cut across the more traditional genre labels.

ENG 351. THE NOVEL **4 sh**

Focus and content vary in this course, which examines representative novels from different countries and ages. Typical emphases include the American, the British, the picaresque, the political novels and the Bildungsroman. This course sometimes carries an emphasis on gender. Prerequisite: ENG 110.

ENG 352. DRAMA **4 sh**

In a study of western drama from ancient Greece to the present, representative texts are examined in their historical and cultural contexts. Prerequisite: ENG 110.

ENG 353. POETRY **4 sh**

Examination of representative poetry from different cultures and ages includes at least one epic, shorter narratives, dramatic and lyric poetry. Each student selects one culture, historical period or type of poetry as the focus of an individual research project. Prerequisite: ENG 110.

ENG 354. THE SHORT STORY **4 sh**

Study of the short story as a literary form spans from its origins and development by Poe, Chekhov and others to experimental contemporary writers. Typically, five or six collections by writers from a variety of cultures are read, with some attention to the problem of film adaptation. Prerequisite: ENG 110.

ENG 355. SPECIAL TOPICS IN GENRE STUDIES **4 sh**

This course will offer specialized topics in genre and could include such topics as Laughter and Comedy, The Novel: British Women Writers, or Modern Poetry: British and American. Prerequisite: ENG 110

ENG 356. NONFICTION**4 sh**

Courses offered under this heading will usually focus on a specific subgenre of nonfiction, such as travel writing, nature writing, political writing, biography, memoir, new journalism, and the personal essay. Prerequisite: ENG 110.

ENG 357. THE LONDON THEATRE**4 sh**

Students see productions of Shakespearean and other classic dramas and experience more modern and contemporary plays — both fringe and mainstream — in this study of drama in the London Theatre. Prerequisite: ENG 110. Study Abroad students only.

ENG 359. AFRICAN-AMERICAN NOVELS**4 sh**

This study of novels by such writers as Baldwin, Ellison, Hurston, Walker, Wright and Morrison gives attention to gender, place, alienation and changes in forms of protest. This course satisfies the cultural studies requirement for English majors. Offered fall of alternating years. Satisfies the departmental global/multicultural requirement. Prerequisite: ENG 110.

Special Topics

Special Topics courses involve studies of various topics, some of which fall outside the boundaries of traditional literary study.

ENG 361. GENDER ISSUES IN CINEMA**4 sh**

This course explores how well film reveals gender differences between men and women. Time is spent studying gender stereotyping, the psychological accuracy of film's representations of gender and gendered behavior of film directors. This course does not fulfill the General Studies literature requirements. Prerequisite: ENG 110.

ENG 362. FILM CRITICISM**4 sh**

This course emphasizes how to interpret cinema critically, using films that illustrate cultural differences, periods and types of filmmaking and achievements in techniques and ideas of the greatest directors. This course does not fulfill the General Studies literature requirement. Prerequisite: ENG 110.

ENG 365. LITERATURE AND THEOLOGY**4 sh**

This course provides an interdisciplinary study focusing on relationships between literary and theological disciplines with special attention to literature illustrating various approaches to religious questions. Prerequisite: ENG 110. (ENG 365 cross-listed with REL 365.)

ENG 366. CONTEMPORARY WRITERS**4 sh**

This course explores the contemporary movements in fiction, poetry and nonfiction with special attention to style and technique. This course will include significant reading as well as the production of original work. Assignments will be both creative and academic. Required for Creative Writing concentration majors, this course can also meet the General Studies literature requirement and the core literature requirement for English majors. Prerequisites: ENG 110; ENG 213, or permission of instructor.

ENG 367. THE ARTHURIAN LEGEND**4 sh**

Course study traces the development of stories of King Arthur and the Round Table from their appearance in the early Middle Ages through the present. Genres include chronicle, poetry, fiction and cinema. Prerequisite: ENG 110.

ENG 381. WRITING INTERNSHIP**1-4 sh**

Students have an opportunity to apply their writing skills in a business office. By permission of instructor and chair. No credit toward General Studies requirements.

ENG 382. TEACHING INTERNSHIP**1-4 sh**

The student will attend a 100-200-level course and will work with the professor teaching this course to develop assignments, journal prompts, quiz and class discussions,

as well as lead small group discussions. The student will also meet with the professor once a week to discuss strategies for planning the course, selection of texts, the structure of daily class sessions and the pedagogical techniques used in the course. Prerequisites: ENG 110 and English majors of at least sophomore standing. By permission of instructor and chair.

ENG 397. WRITING AS INQUIRY

4 sh

This course is designed to introduce students to a survey of the methods and methodologies of research in rhetoric, composition and professional writing. The course will emphasize reading from a broad survey of key texts in the field and hands-on practice of key methods such as workplace ethnography. The culminating project for the course will be to prepare the research proposal for their senior seminar project. Prerequisite: ENG 110.

ENG 399. YOUNG ADULT LITERATURE

4 sh

In this study of contemporary literature for young adult readers, students read texts appropriate to the adolescent, examine common themes and apply critical approaches suitable for middle grades and secondary classrooms. Authors may include Judy Blume, Robert Cormier, S. E. Hinton, Madeleine L'Engle, Gary Paulsen, Katherine Patterson and Cynthia Voigt. Credit toward English teacher licensure. No credit toward English major/minor. Prerequisites: EDU 211, ENG 110.

ENG 411. ADVANCED TOPICS IN PROFESSIONAL WRITING AND RHETORIC

4 sh

Special topics courses within the professional writing and rhetoric concentration offer students a deeper study of theory and practice as well as further opportunities to develop themselves as rhetors. Possible topics include Zen and Writing, Advanced Interactive Design, Citizen Rhetor, Advanced Composition and Argument, Writing for Non-Profits. Prerequisite: ENG 110.

ENG 413. ADVANCED CREATIVE WRITING

4 sh

Students in this workshop course will combine their reading of fiction, nonfiction and poetry with the production of their own new texts. This is specifically designed for the writing and revision of pieces suitable for publication and manuscripts appropriate for application to graduate writing programs. This class will be extremely rigorous while preserving the supportive and constructive atmosphere of the writing workshop. Prerequisites: ENG 110, 213, and at least one upper-level creative writing course (ENG 315-317).

ENG 414. SPECIAL TOPICS IN CREATIVE WRITING

4 sh

Special topics courses within the creative writing concentration offer students further opportunities to develop themselves as writers. Possible topics include Poetic Forms: History, Theory and Practice; Teaching Creative Writing in the Community; Flash Fiction; The Short-Short Story; and Hybrid Genres: The Confluence of Poetry, Fiction and Nonfiction. Prerequisite: ENG 110, 213.

ENG 491. INDEPENDENT STUDY

1-4 sh

Senior Seminar, Research

ENG 495. SENIOR SEMINAR: LITERATURE

4 sh

This capstone seminar requires majors to integrate and extend their knowledge and practice of literary study. It emphasizes independent research, effectively presenting research in oral and written forms, and awareness of current debates in literary studies. Prerequisite: ENG 110. Majors only or by permission of instructor.

ENG 496. SENIOR SEMINAR: CREATIVE WRITING

4 sh

The senior seminar in creative writing focuses on the students' production of new work in fiction, poetry and/or nonfiction in a workshop environment. Emphasis is also

placed on the active reading of contemporary authors. Prerequisite: ENG 110, 213. Majors only or by permission of instructor.

ENG 497. SENIOR SEMINAR: PROFESSIONAL WRITING AND RHETORIC

4 sh

This course is a general introduction to the language and methods of advanced study in professional writing and rhetoric. Modeled after a graduate seminar, it allows students to conduct independent research in an area of their choice. Prerequisite: ENG 110. Majors only or by permission of instructor.

ENG 499. RESEARCH IN ENGLISH

1-4 sh

This course offers students the opportunity to create an undergraduate original research project guided by a faculty mentor. A research proposal form completed by the student and faculty mentor is required for registration. Prerequisite: permission of instructor.

Environmental Studies

Coordinator: Associate Professor MacFall

Professors: Angyal, Gooch, Weston

Associate Professors: D'Amato, Glaesel, Haenel, Kingston, Redington, Sienerth, Spray

Assistant Professors: Peters, Strickland, Touchette, Xiao

Elon University offers both an A.B. and B.S. degree in Environmental Studies, blending scientific foundations with an appreciation of society's needs and concerns. As we face the future, it becomes increasingly clear that environmental challenges are not isolated. The quality of our water, the integrity of our coasts, the health of our forests have shaped the world in which we live. The Earth's capacity to provide is not without limits and is being challenged by demands of our human population. Though the challenge is global, solutions must be found through local, national and international actions grounded in a renewed appreciation for the Earth. Elon University guides students to meet the challenges of today and to become creative and visionary stewards who will lead us to the Earth of tomorrow.

In Elon's program, students take a balanced, interdisciplinary core of classes grounded in ecological understanding. The strength of the program is from the emphasis placed on considering the environment from many perspectives — for example, discussing water resources in science, social science and humanities classes. Students working toward the B.S. degree choose a concentration either in environmental science or society and the environment. The A.B. degree is designed to complement interests in traditional disciplines through minors or a second major, building an environmental focus. The program culminates in a capstone senior seminar, in which students develop a community-based project. In recent seminars, students designed a river corridor protection plan. Students are also required to complete an internship and are encouraged to participate in independent research. Students are also eligible to apply for the Elon College Fellows Program.

Elon University Center for Environmental Studies

A center has been established with the mission of providing a regional focus for activities and interests which meet the environmental needs of the community in the Piedmont Region of North Carolina. The Center's activities have focused on developing community outreach projects between Elon students and faculty on conservation projects. Recent project partners have included the Piedmont Land Conservancy, the Haw River Lands and Trails Association, the Natural Resource Conservation Service, the National Park Service, local governments and industries. These partnerships have also provided research and internship opportunities, providing real world opportunities to students and strengthening their personal and professional development.

A Bachelor of Arts degree with a major in Environmental Studies requires the following:

ENS 111	Introduction to Environmental Science	3 sh
ENS 113	Introduction to Environmental Science Lab	1 sh
ECO 201	Principles of Economics	4 sh
POL 224	Environmental Policy and Law	4 sh
ENG 339	American Environmental Writers	4 sh or
PHL/REL 348	Environmental Ethics	
ENS 381	Internship in Environmental Studies	1-4 sh
ENS 461	Senior Seminar in Environmental Studies	4 sh

Choose one course from the following: 4 sh

ENG 212	Writing Rhetoric and Interface Design
ENG 318	Scientific and Technical Communication
ENS/GEO 350	Introduction to GIS
GEO 356	Remote Sensing and GEO 355 Introduction to Cartography
JCM 218	Media Writing
JCM 211	Professional Speaking and Rhetoric

Choose two courses from the following: (Must be from two departments) 8 sh

ECO 335	Environmental Economics
ENS 310	Environment Issues in Southeast Asia
ENG 339	American Environmental Writers
PHL/REL 348	Environmental Ethics
POL 344	International Environmental Change
GEO 345	Global Environmental Change
GEO 310	Development and Environment in Latin America, Africa and South Asia
GEO 342	Gender and Environment in South America

Choose two courses from the following: 8 sh

BIO 112/114	Introduction to Population Biology and Lab
BIO/ENS 215	Organismal Biology and Field Techniques
BIO 355	Field Biology (Study Abroad)
CHM 101/102	Basic Chemistry and Lab
PHY 110	Energy and the Environment

TOTAL

41-44 sh

A Bachelor of Science degree with a major in Environmental Studies requires the following:

PHY 110	Energy and the Environment	4 sh
ENS 111	Introduction to Environmental Science	3 sh
ENS 113	Introduction to Environmental Science Lab	1 sh
BIO 112	Introduction to Population Biology	3 sh
BIO 114	Introduction to Population Biology Lab	1 sh
ENS 215	Organismal Biology and Field Techniques	4 sh
BIO 452	General Ecology	4 sh

CHM 111	General Chemistry I	3 sh
CHM 112	General Chemistry II	3 sh
CHM 113	General Chemistry I Lab	1 sh
CHM 114	General Chemistry II Lab	1 sh
ECO 201	Principles of Economics	4 sh
POL 224	Environmental Policy and Law	4 sh
ENS 381	Internship	2 sh
ENS 461	Seminar: Environmental Impact Assessment and Policy Development	4 sh
MTH 112	General Statistics	4 sh
PHL/REL 348	Environmental Ethics	4 sh or
ENG 339	American Environmental Writers	
TOTAL		50 sh

Select one of the following two concentrations:

Science Concentration

CHM 211	Organic Chemistry I	3 sh
CHM 213	Organic Chemistry I Lab	1 sh
CHM 305	Environmental Chemistry	4 sh
Choose two courses from the following:		8 sh
PHY 103	Basic Concepts in Geology	
BIO 422	Aquatic Biology	
CHM 311	Quantitative Analysis	
BIO 335	Field Biology (Study Abroad)	
BIO 344	Evolution	

TOTAL	16 sh
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Society and Environment Concentration

ECO 335	Economics of Environmental Issues	4 sh
Choose three courses from the following:		12 sh
POL 328	Public Policy	
POL 344	International Environmental Policy	
POL 431	Policy Analysis and Program Evaluation	
ENS 310	Environmental Issues of Southeast Asia	
GEO 310	Development and the Environment in Latin America, Africa and South Asia	
GEO 320	Africa's People and Environments	
ENS/GEO 350	Introduction to Geographic Information Systems	
ENG 318	Scientific and Technical Communications	

TOTAL	16 sh
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A Bachelor of Science degree in Environmental Studies/Environmental Engineering: See requirements listed in Engineering.

ENS 111. INTRODUCTION TO ENVIRONMENTAL SCIENCE**3 sh**

This course explores the fundamental principles of the biological and physical sciences behind natural ecosystems. The central focus is the study of ecosystem function, human impact and techniques of environmental assessments. Students consider different world views and the development of solutions. Satisfies the laboratory science requirement for General Studies. Corequisite: ENS 113. Offered fall and spring.

ENS 113. INTRODUCTION TO ENVIRONMENTAL SCIENCE LAB**1 sh**

Students will be introduced to techniques for environmental assessment. The focus is on field research as applied to environmental management. One 3-hour laboratory per week. Corequisite: ENS 111. Offered fall and spring.

ENS 215. ORGANISMAL BIOLOGY AND FIELD TECHNIQUES**4 sh**

This course examines the basic concepts of biological form and function and the fundamentals of organismal systematics with a focus on herbaceous and woody plants, invertebrates and microbial ecology. Students investigate the natural history of local species and their role in community dynamics. Laboratory experiences emphasize keying and identification, field methodologies, sampling techniques and population estimation procedures for terrestrial and aquatic ecosystems. Satisfies the General Studies lab science requirement. Prerequisites: ENS /BIO 111/113, or BIO 112/114. (ENS 215 is cross-listed with BIO 215.) Offered spring.

ENS 310. ENVIRONMENTAL ISSUES IN SOUTHEAST ASIA**4 sh**

This course focuses on the environmental issues facing the island nations and the mainland countries of Southeast Asia. The major environmental problems in this region of the world include deforestation, soil erosion, habitat destruction, habitat fragmentation, water pollution from mineral extraction and industry, unsustainable harvesting practices and rising rates of disease. These issues will be examined in the context of climate, topography, vegetation, societal evolution and human history. Emphasis will be placed on the demographic, cultural, political, religious, economic and ecological reasons for the current state of the environment of Southeast Asia. Practical solutions to reduce environmental degradation and promote sustainable development will be examined. This course cannot be used to satisfy a science requirement. Offered alternate years.

ENS 350. INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS**4 sh**

(Cross-listed with GEO 350. See GEO 350 for description.) This course can be applied toward the Studies in Arts and Sciences requirement for Society. It cannot be applied toward the Science requirement. Offered fall.

ENS 381. INTERNSHIP IN ENVIRONMENTAL STUDIES**2-4 sh**

An internship provides work experience at an advanced level in an environmental science field. Prerequisite: junior/senior standing as an ENS major and permission of the Program Coordinator. Offered fall, winter, spring or summer.

ENS 461. SEMINAR: ENVIRONMENTAL IMPACT ASSESSMENT AND POLICY DEVELOPMENT**4 sh**

Students cooperate in a semester-long project, conducting a complete field investigation of a land/water development proposal. The course provides an opportunity for the students to apply their knowledge, analytical and problem-solving skills and ethical perspectives in the creation of a report that could be used by a municipal or regional planning organization. Prerequisite: senior standing as an ENS major. Offered fall.

Exercise/Sport Science

Chair, Department of Health and Human Performance: Associate Professor J. Davis

Professors: Beedle, Calhoun

Associate Professor: Miller

Assistant Professors: Allen, Baker, Hall, Smith

The exercise/sport science major program, located within the Health and Human Performance Department, prepares graduates for careers in cardiac rehabilitation, corporate wellness, personal training and related professions. Students who wish to pursue graduate degrees may apply to physical therapy, exercise physiology and other areas of study after satisfying the appropriate prerequisites.

A major in Exercise/Sport Science requires the following:

Core requirements:

ESS 101	Introduction to Sports Medicine	2 sh
ESS 263	Structural and Functional Kinesiology	4 sh
ESS 281	Practicum	2 sh
ESS 295	Research Methods	4 sh
ESS 422	Physiology of Exercise	4 sh
ESS 424	Exercise Programming	4 sh
ESS 495	Senior Seminar	4 sh
PED 321	Biomechanics	4 sh
CHM 111	General Chemistry I	3 sh
CHM 113	General Chemistry I Lab	1 sh
BIO 161	Human Anatomy	4 sh
BIO 162	Human Physiology	4 sh
HED 324	Nutrition	4 sh

TOTAL CORE REQUIREMENT HOURS

44 sh

NOTE: Any time prior to graduation students must show proof of a valid First Aid/CPR certification.

Four semester hours from the following: 4 sh

- ESS 322 Epidemiology of Physical Activity (4 sh)
- ESS 440 Exercise Biochemistry (2 sh)
- ESS 441 Cellular Physiology of Nerve and Muscle (2 sh)

Four semester hours from the following: 4 sh

- ESS 333 Exercise Psychology (4 sh)
- ESS 442 Sport Psychology (4 sh)

Eight semester hours from any ESS course or the following: 8 sh

- HED 421 Chronic and Acute Diseases (4 sh)
- ATP 112 Athletic Training I (4 sh)

TOTAL

60-61 sh

A minor in Exercise/Sport Science requires the following courses:

ESS 422	Physiology of Exercise	4 sh
HED 324	Nutrition	4 sh
PED 321	Biomechanics	4 sh
BIO 161	Human Anatomy	4 sh
BIO 162	Human Physiology	4 sh

TOTAL		20 sh
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ESS 101. INTRODUCTION TO SPORTS MEDICINE **2 sh**

This course is an overview of professions in the field of sports medicine. Career opportunities within sports medicine and allied health will be investigated. Objectives include describing various aspects of careers, determining requirements for advanced study and learning what the necessary coursework would be for applying to several professions of interest. Offered fall and spring.

ESS 263. STRUCTURAL AND FUNCTIONAL KINESIOLOGY **4 sh**

This course is designed to increase student knowledge and exposure to the structural and functional components of human anatomy including musculoskeletal origins, insertions, actions and innervations; the ability to identify landmarks, surface markings and palpations on a live model; to describe functional movements in various sport activities and then classify and identify which muscles work together to create the motions. Emphasis will be placed on normal walking and running gait, posture, throwing, kicking and jumping. Prerequisite: BIO 161. Offered as needed.

ESS 281. PRACTICUM IN EXERCISE/SPORT SCIENCE **2 sh**

The practicum introduces the student to professions in sports medicine and health-related fields. Students must choose three different agencies to work in with about 27 hours at each agency. Students must turn in typed reports including a brief discussion of the experience, reflections and a critique of the experience/agency. Students may also assist with patient/client care, and/or training and shadow their supervisor. Students must make arrangements with their professor the semester before taking the practicum. Prerequisites: ESS 101, majors only. Offered fall, winter, spring and summer.

ESS 295. RESEARCH METHODS **4 sh**

This course is an overview of research methods and procedures. Areas of investigation include research study and design, research study procedures, scientific writing, data collection, presentation styles and statistical analysis. Offered fall and spring.

ESS 315. ADVANCED STRENGTH TRAINING CONDITIONING **4 sh**

This course covers physical fitness testing and strength evaluation of the athlete, components of a physical conditioning program, use of commercial and free weight equipment, technique/skill demonstration, evaluation of and designing and implementing fitness/conditioning programs. The course is designed to assist students in preparation for taking the NSCA-Strength and Conditioning Specialist (CSCS) or NSCA-Certified Personal Trainer (NSCA-CPT) as well as those students preparing for the BOC athletic training exam. The course also ensures a minimal competence among practitioners from a scientific, educational and methodological perspective. Prerequisite: junior/senior status. Offered spring.

ESS 322. EPIDEMIOLOGY OF PHYSICAL ACTIVITY **4 sh**

This course will examine the relationship between physical activity and exercise on various diseases and conditions. Various methods for epidemiological assessment will be discussed in this course as well as current finding regarding the association between physical activity and chronic disease and chronic disease risk factors, and the potential risks associated with increased physical activity will be highlighted. Offered fall.

ESS 333. EXERCISE PSYCHOLOGY**4 sh**

This course will examine applied and theoretical issues related to the psychology of physical activity. Theories of motivation and exercise behavior will be examined in relation to the increasing problems of exercise adherence and physical inactivity. Other topics that will be discussed include the psychological benefits of exercise, personality and exercise, body image and the psychology of injury. Various techniques will be discussed in relation to motivating exercise behaviors and how to deal with special populations. This course does not fulfill requirements for a major or minor in psychology. Offered fall.

ESS 422. PHYSIOLOGY OF EXERCISE**4 sh**

Students examine the immediate and long-term effects of exercise on the body, including the integration of various bodily systems as a result of exercise and the role of nutrition and exercise in weight management. Laboratory activities include aerobic capacity testing, blood lipid and metabolic profiles, determination of body composition and possibly adult fitness testing. This course requires a three-hour lab. Prerequisite: BIO 162. Offered fall and spring.

ESS 424. APPLIED EXERCISE PHYSIOLOGY**4 sh**

Students gain applied knowledge in order to evaluate, develop and supervise exercise programs for both healthy and special populations. Topics include basic terminology, risk identification, types of fitness tests, indications and contraindications to exercise, program administration and effective communication techniques. Prerequisite: ESS 422. Offered fall and spring.

ESS 440. EXERCISE BIOCHEMISTRY**2 sh**

This course will examine the physiology that underlies the production of energy and formation of new tissues. This course will center on training-specific adaptations. Other topics explored will be: enzymes, nucleotides, bioenergetics, metabolism and protein synthesis. Various laboratory techniques will be discussed and tested. Prerequisites: BIO 162, ESS 422 or permission of the instructor. Offered fall even years.

ESS 441. CELLULAR PHYSIOLOGY OF NERVE AND MUSCLE**2 sh****149**

This course will examine the physiological processes involved in neural conduction and muscle contraction. Training-specific adaptations will be central to this course of study. Other topics explored include composition of intracellular and extracellular fluids, membrane potential, generation of the action potential, experiments in excitable cell physiology, synaptic transmission, muscle contraction and cardiac muscle. Various laboratory techniques will be discussed and tested. Prerequisite: BIO 162 or permission of the instructor. Offered fall odd years.

ESS 442. SPORT PSYCHOLOGY**4 sh**

This course will provide a broad overview of the sport psychology discipline. Major areas of interest will be on the motivational theories of sport participation, the factors that influence athletic performance, psychological techniques that can be used to improve sport athletic performance and the social psychology of sport. This course will discuss the theories and applications involved in sport psychology. Offered spring.

ESS 443. EXERCISE PSYCHOPHYSIOLOGY**2 sh**

Typically when discussing the benefits of physical activity, the benefits are either classified as being physical or psychological. The objective of this course is to give the student an overview of research and theory that has incorporated a psychophysiological (and in some cases a psychobiological) approach, i.e., an approach which views the interaction between physiological states and psychological states as a reciprocal relationship. This course will focus on the psychophysiology of exercise (e.g., affect [anxiety, depression], sleep, pain, cognitive functioning). Prerequisite: PSY 111 or BIO 162 or permission of the instructor. Offered spring odd years.

ESS 482. INTERNSHIP IN EXERCISE/SPORT SCIENCE**4 sh**

Upper-class exercise/sport science majors select a sports medicine or health-related agency for their internship, a capstone experience. Students serve 160 hours at the agency. Students turn in biweekly reports, including a brief discussion of the experience, reflections and a critique of the experience/agency. Students may engage in problem-solving assignments and perform research on some particular topic. Students may also assist with patient/client care and/or training and shadow their supervisor. A research paper is due near the end of the experience. Students should make arrangements with their professors the semester prior to taking the internship. Prerequisites: ESS 281; junior/senior majors; 2.0 GPA overall, 2.0 GPA in major. Offered fall, spring and summer.

ESS 491. INDEPENDENT STUDY**1-4 sh****ESS 495. SENIOR SEMINAR****4 sh**

This course examines the current trends, ideas, technology and scientific theory associated with exercise science. Students will design, propose, conduct, write and present a substantive research endeavor. They will examine up-to-date disciplinary ideology and discuss these concepts in a seminar-type setting. They will also develop position papers and discuss methods for implantation of fitness concepts in clinical, commercial and community settings. Additionally, they will lead "journal club" activities and the ensuing discussion of that topic. Prerequisites ESS 295 and ESS 422. Offered fall and spring.

ESS 499. RESEARCH IN EXERCISE/SPORT SCIENCE**1-4 sh**

Independent research project supervised by faculty mentor.

Finance (see ACCOUNTING AND FINANCE)

150

Fine Arts

Chair, Department of Art: Associate Professor Hassell

Associate Professors: Tucker, Wellford

Adjuncts: Chenoweth, Gibson, Rhoades, Rosenblatt-Farrell

The Fine Arts curriculum examines the connections between the various disciplines of artistic and intellectual creativity from a variety of perspectives. These disciplines, including the visual and performing arts, literature, music, film, philosophy, foreign languages and education, are studied in courses offered both on campus and overseas. Through Fine Arts courses, students experience how the arts are an inextricable part of culture that provide insight into human creativity and expression.

FNA 101. INTRODUCTION TO THEATRE**4 sh**

Students explore the nature of theatre, how it is created and how it functions in society. Primary study covers the diversity of the art form, basic terminology and the event/audience relationship. Performance reaction papers, creative projects and lab hours are required. Offered fall or spring. (FNA 101 is cross-listed with THE 101.)

FNA 211. INTRODUCTION TO FINE ARTS**4 sh**

This comparative study of the major artistic forms involves readings, exhibitions, cultural events, lectures and workshops with visiting artists through which students discover works of art, their uses, purposes and aesthetic values. Offered fall and spring.

FNA 251. FINE ARTS STUDIES IN ENGLAND**4 sh**

This course is a study tour of London emphasizing theatres, concerts and places of cultural importance. Winter only.

FNA 265. FINE ARTS STUDIES IN ITALY**4 sh**

This course is a study tour of Italy exploring the music, art, architecture and theatre. Winter only.

FNA 313. BRITISH ART AND ARCHITECTURE**4 sh**

Field trips to museums and historically relevant sites complement classroom study of the art and architecture of England from the Anglo-Saxon and Roman periods to the 19th century. Offered fall and spring.

FNA 369. FINE ARTS IN THE PUBLIC SCHOOLS**4 sh**

Early childhood and elementary education majors become familiar with current approaches to teaching the arts, with emphasis placed on incorporating the arts into daily instruction. Prerequisites: junior standing, acceptance to the teacher education program and PSY 321. Materials fee: \$20.

Foreign Languages

Chair, Department of Foreign Languages: Associate Professor Van Bodegraven

Professor: Lunsford

Associate Professors: Ihrie, R. Lanzoni, Romer

Assistant Professors: de Lama, Sumiyoshi, Windham

In the 21st century, students are faced with a global economy and a world shrinking due to advances in communication technology. This encounter makes the study of foreign languages more essential than ever.

The Department of Foreign Languages offers courses in eight languages and programs leading to the Bachelor of Arts degree with a major in French or Spanish. A student majoring in French or Spanish may also choose to complete the program leading to teacher licensure.

In the French and Spanish programs, the course offerings are balanced between literary, cultural and linguistic study. Emphasis is placed on practical use of the language, and classroom learning is enhanced by video and computer technology as well as study abroad opportunities.

A major in French requires the following courses:

FRE 321	Conversation	4 sh
FRE 322	Written and Oral Expression in French	4 sh
FRE 331	Introduction to French Literature I	4 sh
FRE 332	Introduction to French Literature II	4 sh
FRE 341	Francophone Literature	4 sh
FRE 361	French Civilization	4 sh
FRE 362	Francophone Cultures Outside France	4 sh
FRE 401	French Linguistics	4 sh
Two additional electives above the 222 level		8 sh

TOTAL**40 sh**

French majors are required to study abroad for at least one semester in a university-approved program in a country where French is officially spoken. Credits earned in such a program may substitute for requirements for this major.

A maximum of four semester hours in internship credit can apply to the French major.

A minor in French requires 20 hours (24 hours if the student begins with FRE 121), eight of which must be above the 222 level. A winter term abroad is encouraged.

A major in Spanish requires the following courses:

SPN 322 Composition (prerequisite for all upper level courses) 4 sh

Culture Courses:

Choose at least two of the following: 8 sh

- SPN 333 Spanish Civilization
- SPN 334 Latin American Civilization
- SPN 335 Latinos in the U.S.
- SPN 372 Special Topics: must be cultural

Literature Courses:

Choose at least two of the following including SPN 350: 8 sh

- SPN 350 Introduction to Literary Analysis (prerequisite for all higher-numbered literature courses)
- SPN 351 Survey of Peninsular Literature
- SPN 352 Survey of Latin American Literature
- SPN 353 Studies in Peninsular Literature
- SPN 354 Studies in Latin American Literature
- SPN 375-379 Special Topics: must be literary
- SPN 475 Special Topics

Language Courses:

Choose at least two of the following: 8 sh

- SPN 421 Advanced Spanish Grammar I
- SPN 422 Advanced Spanish Grammar II
- SPN 451 Spanish Phonetics
- SPN 461 Translation

Capstone:

- SPN 465 Colloquium in Hispanic Studies 4 sh
(to graduate with a major in Spanish, a grade of "C" or higher is required in this course)

Elective Courses:

8 sh

A 40-hour major may be completed by taking any Spanish courses above the 222 level, chosen from the categories above or taken during study abroad programs in Spain or Latin America.

Note: Students pursuing licensure to teach Spanish are strongly encouraged to take SPN 421 Advanced Grammar I, SPN 422, Advanced Grammar II and SPN 451 Phonetics.

TOTAL

40 sh

Spanish majors are required to study abroad for at least one semester in a university-approved program in a country where Spanish is officially spoken. Credits earned in such a program may substitute for requirements for the major.

A maximum of four semester hours in internship credit can apply to the Spanish major.

A minor in Spanish requires 20 hours (24 hours if the student begins with SPN 120 or 121), eight of which must be above the 222 level. A winter term abroad is encouraged.

A major in French or Spanish with Teacher Licensure, K-12, requires the above 40 semester hours including SPN 421, SPN 422 and SPN 451, or FRE 401 or its substitute, plus 35 semester hours of professional studies courses in education and psychology.

Chinese

CHN 121. ELEMENTARY CHINESE I 4 sh

An introduction to Chinese language and culture, this course assumes no prior knowledge. Practical, conversational usage of the language is stressed as is study of the culture of China. No prerequisite. Offered fall.

CHN 122. ELEMENTARY CHINESE II 4 sh

This course is designed for students with some prior knowledge of the language and serves as a systematic review within a cultural context. Practical, conversational usage of the language is stressed as is the culture of China. Prerequisite: CHN 110 or 121, three years of high school Chinese or permission of the instructor. Offered spring.

CHN 221. INTERMEDIATE CHINESE I 4 sh

This course is designed for students who have mastered the basic concepts of the language. Speaking skills and character writing within a cultural context are further developed. Prerequisite: Chinese 121 or 210, four years of high school Chinese or permission of the instructor.

French

FRE 121. ELEMENTARY FRENCH I 4 sh

This course is designed for students with little or no prior experience in the language. Special emphasis is placed on active communication to develop oral and comprehension skills. Students will learn to converse and write about daily routines, likes and dislikes in the present and commence usage of past tenses. Factual information about the nature of daily life and routines in French and Francophone cultures will also be acquired. Proficiency goal on the ACTFL scale: novice high. No prerequisite or admission by placement test. Offered every semester.

FRE 122. ELEMENTARY FRENCH II 4 sh

This course continues development of skills in basic structures within increasing cultural and literary competence. Special emphasis continues to be placed on development of oral and comprehension skills. Students will learn to discuss topics of a personal nature in present, past and future, and to express opinions on a limited range of topics. Knowledge of French and Francophone history and cultures is also extended. Proficiency goal on the ACTFL scale: Intermediate low. Prerequisite: FRE 110 or 121 or placement at this level.

FRE 221. INTERMEDIATE FRENCH I 4 sh

This course provides intensive development of all language skills. Increased emphasis is given to reading strategies and composition. Students will be able to describe, analyze, hypothesize and express opinions on a widening range of cultural topics. Proficiency goal on the ACTFL scale: Intermediate mid. Prerequisite: FRE 210 or 122 or placement at this level.

FRE 222. INTERMEDIATE FRENCH II

4 sh

This final course in the basic language sequence consolidates skills attained in French 121, 122 and 221, or the equivalent. Advanced reading, writing and speaking skills are developed through study of increasingly sophisticated cultural and literary topics. This course or its equivalent is the prerequisite for all French courses numbered 300 or higher. Proficiency goal on the ACTFL scale: Intermediate high. Prerequisite: FRE 310 or 221 or placement at this level.

FRE 321. CONVERSATION

4 sh

Conversational study develops abilities in everyday spoken communication with emphasis on building vocabulary and speaking proficiency. Prerequisite: FRE 222 or four or more years of high school French or permission of instructor. Offered every third year.

FRE 322. WRITTEN AND ORAL EXPRESSION IN FRENCH

4 sh

Intensive practice in oral and written expression focuses on refinements in structure, conversation and writing for specific purposes. Prerequisite: FRE 222 or permission of instructor. Offered every third year.

FRE 331. INTRODUCTION TO FRENCH LITERATURE I

4 sh

Major texts of literature of France from the Middle Ages through the 18th century are taught in their historical, social and cultural context. Prerequisite: FRE 222 or permission of instructor. Offered every third year.

FRE 332. INTRODUCTION TO FRENCH LITERATURE II

4 sh

Major French literary texts since the French Revolution are taught in their historical, social and cultural context. Prerequisite: FRE 222 or permission of instructor. Offered every third year.

FRE 341. FRANCOPHONE LITERATURE

4 sh

This course covers the major texts of French expression from Africa, the Antilles and Canada. Prerequisite: FRE 222 or permission of instructor. Offered every third year.

154 FRE 361. FRENCH CIVILIZATION

4 sh

A survey of the history, geography, people and institutions of France from prehistoric times to the present emphasizes France's many contributions to Western civilization. Prerequisite: FRE 222 or permission of instructor. Offered every third year.

FRE 362. FRANCOPHONE CULTURES OUTSIDE FRANCE

4 sh

This course studies regional cultures around the world influenced by France, notably Africa, the Antilles and Canada. Prerequisite: FRE 222 or permission of instructor. Offered every third year.

FRE 363. THE FRENCH CINEMA

4 sh

A chronological approach to the study of the French cinema, beginning with the first films of the Lumière brothers and including the silent era, the period between the wars, the postwar period, the New Wave and the contemporary cinema. The course includes consideration of the work of major directors as well as cultural and artistic characteristics of French cinema. Prerequisite: FRE 222 or permission of the instructor.

FRE 371-379. SPECIAL TOPICS

4 sh

Topics may include advanced study of cinema, selected literary authors, periods, genres or regions. Prerequisite: FRE 222 or permission of instructor.

FRE 401. FRENCH LINGUISTICS

4 sh

Practice in phonetic transcriptions and sound discrimination is part of this study of the French language system, including phonology, morphology and semantics. Prerequisite: FRE 222 or permission of instructor. Offered every third year.

FRE 481. INTERNSHIP**1-4 sh**

The internship provides students with practical experience using French in a professional setting. It may include internships in teaching, social service, government service, business, etc., in the U.S. or abroad. Prerequisite: at least one course above the FRE 222 level and departmental approval.

FRE 491. INDEPENDENT STUDY**2-4 sh***German***GER 121. ELEMENTARY GERMAN I****4 sh**

This course is designed for students with little or no prior experience. Special emphasis is placed on active communication to develop oral and comprehension skills. Students will learn to communicate about daily routines, likes and dislikes in the present tense. Factual information about the nature of daily life and routines in German-speaking cultures will also be acquired. Proficiency goal on the ACTFL scale: novice high. No prerequisite. Students with prior experience in the language will take the placement test for possible placement in German 122.

GER 122. ELEMENTARY GERMAN II**4 sh**

This course continues development of skills in basic structures within increasing cultural and literary competence. Special emphasis is placed on development of oral and listening comprehension skills. Students will learn to discuss topics of a personal nature in present, past and future, and to express opinions of a limited range of topics. Knowledge of German-speaking history and cultures is also extended. Proficiency goal on the ACTFL scale: intermediate low. Prerequisite: GER 110 or 121 or placement at this level. Offered spring.

GER 221. INTERMEDIATE GERMAN I**4 sh**

This course provides intensive development of all four language skills. Increased emphasis is given to reading strategies and composition. Students will be able to describe, analyze, hypothesize and express opinions on a widening range of cultural topics. Proficiency goal on the ACTFL scale: intermediate mid. Prerequisite: GER 210 or 122 or placement at this level.

GER 222. INTERMEDIATE GERMAN II**4 sh**

This final course in the basic language sequence consolidates skills attained in German 121, 122 and 221 (or the equivalent study elsewhere). Advanced reading, writing and speaking skills are developed through study of increasingly sophisticated cultural and literary topics. This course or its equivalent is the prerequisite for all German courses numbered 300 or higher. Proficiency goal on the ACTFL scale: intermediate high. Prerequisite: GER 221 or 310 or placement at this level. Offered spring.

GER 371-4. SPECIAL TOPICS**4 sh**

Topics may include advanced study in culture or literature. Prerequisite: GER 222.

*Greek***GRK 110. ELEMENTARY GREEK****4 sh**

This intensive study covers Hellenistic Greek grammar and vocabulary.

GRK 210. INTERMEDIATE GREEK**4 sh**

Intermediate study includes readings in Greek from the First Letter of John and the Gospel of Mark in the Greek New Testament to improve grammar and vocabulary.

GRK 310. ADVANCED GREEK**4 sh**

Readings include the letters of Paul in the Greek New Testament to reach advanced levels of grammar and vocabulary.

*Italian***ITL 100. SURVIVAL ITALIAN: STUDY ABROAD****2 sh**

For students with no previous experience in Italian. Students who have taken any previous coursework in Italian in high school or college cannot get credit for this course. An introduction to basic survival skills in Italian especially for students who will study abroad in Italy during the winter or summer terms. Emphasis is on the vocabulary, grammatical structures and cultural knowledge necessary to complete basic survival tasks in Italian, including greeting natives politely, requesting and understanding directions, changing money, ordering a meal, making purchases, requesting a resolution to a problem in a hotel, etc. Taught in Italian. Does NOT count toward the General Studies civilization requirement.

ITL 121. ELEMENTARY ITALIAN I**4 sh**

This course is designed for students with little or no prior experience in the language. Special emphasis is placed on active communication to develop oral and comprehension skills. Students will learn to converse and write about daily routines, likes and dislikes in the present, and commence usage of past tenses. Factual information about the nature of daily life and routines in Italian culture will also be acquired. Proficiency goal on the ACTFL scale: novice high. No prerequisite or admission by placement test.

ITL 122. ELEMENTARY ITALIAN II**4 sh**

This course continues development of skills in basic structures within increasing cultural and literary competence. Special emphasis continues to be placed on development of oral and comprehension skills. Students will learn to discuss topics of a personal nature in present, past and future, and to express opinions on a limited range of topics. Knowledge of Italian history and culture is also extended. Proficiency goal on the ACTFL scale: Intermediate low. Prerequisite: ITL 110 or 121 or placement at this level. Offered spring.

ITL 221. INTERMEDIATE ITALIAN I**4 sh**

This course provides intensive development of all language skills. Increased emphasis is given to reading strategies and composition. Students will be able to describe, analyze, hypothesize and express opinions on a widening range of cultural topics. Proficiency goal on the ACTFL scale: Intermediate mid. Prerequisite: ITL 210 or 122 or placement at this level.

ITL 222. INTERMEDIATE ITALIAN II**4 sh**

This final course in the basic language sequence consolidates skills attained in Italian 121, 122 and 221, or the equivalent. Advanced reading, writing and speaking skills are developed through study of increasingly sophisticated cultural and literary topics. Proficiency on the ACTFL scale: Intermediate high. Prerequisite: ITL 310 or 221 or placement at this level. Offered spring.

*Japanese***JPN 121. ELEMENTARY JAPANESE I****4 sh**

An introduction to the Japanese language and culture, this course assumes no prior knowledge. Practical, conversational usage of the language is stressed as is a study of the culture of Japan. Japanese syllabaries (Hiragana and Katakana) and some Kanji (Chinese characters) are also introduced and taught in the cultural readings. No prerequisite. Offered fall.

JPN 122. ELEMENTARY JAPANESE II**4 sh**

This course is designed for students with some prior knowledge of the language and serves as a systematic review within a cultural context. Linguistic elements of the language are introduced with practical, conversational usage of the language stressed. More Kanji characters are taught to help develop reading and writing skills. Prerequisite: JPN 110 or 121, three years of high school Japanese or permission of the instructor. Offered spring.

JPN 221. INTERMEDIATE JAPANESE I**4 sh**

This course is designed for students who have mastered some basic concepts of the language. Advanced linguistic skills are introduced with concepts to help develop oral communication within a cultural context. Kanji characters are continually introduced to enhance advanced reading and writing skills. Prerequisite: JPN 122 or 210, four or more years of high school Japanese or permission of the instructor.

*Latin***LAT 121. ELEMENTARY LATIN I****4 sh**

This course provides a survey of elementary Latin grammar and syntax while giving some practice in reading and writing Latin. During the study of the language, students will be introduced to the culture of the Romans through the study of their language. No prerequisite.

LAT 122. ELEMENTARY LATIN II**4 sh**

This course is the continuation of LAT 121 and completes the study of Latin grammar and syntax while providing more in-depth practice in the reading of ancient authors. Prerequisite: LAT 121 or 170 or placement at this level.

*Spanish***SPN 119. ELEMENTARY SPANISH CONVERSATION****2 sh**

In this course, students practice basic oral communication skills (speaking and listening). Correct pronunciation is also emphasized. Prerequisite: SPN 110 or 120 or 121, one year of high school Spanish or permission of instructor. No credit will be given to students who have completed SPN 122 or higher.

SPN 120. ELEMENTARY SPANISH REVIEW**2 sh**

This course is designed for students who have some previous experience in the language but need a refresher course before beginning study at the 122 level. Proficiency goal on the ACTFL scale: Novice High. Prerequisite: The equivalent of at least one or two semesters of high school Spanish.

SPN 121. ELEMENTARY SPANISH I**4 sh**

This course is for true beginners with no prior experience in the language. Special emphasis is placed on active communication, to develop oral and comprehension skills. Students will learn to converse and write about daily routines, likes and dislikes in the present. Factual information about the nature of daily life and routines in Hispanic cultures and simple literary selections will also be introduced. Proficiency goal on the ACTFL scale: Novice High. **NO PREREQUISITE:** Students with prior study of Spanish may NOT take this course for credit; such students should take Spanish 120.

SPN 122. ELEMENTARY SPANISH II**4 sh**

This course continues development of skills in basic structures within increasing cultural and literary competence. Special emphasis continues to be placed on development of oral and comprehension skills. Students will learn to discuss topics of a personal nature in present, past, and future, and to express opinions on a limited range of topics. Knowledge of Hispanic history and cultures is also extended. Proficiency goal on the ACTFL scale: Intermediate-Low. Prerequisite: SPN 110 or 120 or 121 or placement at this level.

SPN 219. INTERMEDIATE SPANISH CONVERSATION**2 sh**

Designed for students with some prior knowledge of the language, this course continues the student's development of oral communication skills and provides the student with the language needed to survive in situations in which Spanish must be used. Prerequisite: SPN 210, SPN 122, two years of high school Spanish or permission of instructor. No credit will be given to students who have completed SPN 222 or higher. Offered spring.

SPN 221. INTERMEDIATE SPANISH I**4 sh**

This course, for students who have completed Spanish 122 or three or four years of high-school Spanish, provides intensive development of all language skills. Increased emphasis is given to reading strategies and composition. Students will be able to describe, analyze and express opinions on a widening range of topics. Proficiency goal on the ACTFL scale: Intermediate-Mid. Prerequisite: SPN 210 or 122 or placement at this level.

SPN 222. INTERMEDIATE SPANISH II**4 sh**

This final course in the basic language sequence consolidates skills attained in Spanish 121, 122 and 221, or the equivalent. Reading, writing and speaking skills are developed through study of increasingly sophisticated cultural and literary topics. At the end of the course, students should be able to use complex grammatical structures including the subjunctive and will be prepared to succeed in a variety of classes at the 300 level. Proficiency goal on the ACTFL scale: Intermediate-High. Prerequisite: SPN 310 or 221 or placement at this level.

SPN 319. ADVANCED SPANISH CONVERSATION**2 sh**

This course is designed for students who have mastered the basic concepts of the language. The major focus of this course is to provide learners with the specific vocabulary needed to communicate at an intermediate-high or advanced-low level of proficiency and to enable students to express themselves in practical situations. Prerequisite: SPN 222 or 310, three years of high school Spanish or permission of instructor. No credit will be given to students who have already completed a 400-level Spanish course. Offered spring.

SPN 321. CONVERSATION**4 sh**

Conversational Spanish involves intensive practice in everyday communication situations with emphasis on vocabulary and speaking proficiency. Includes grammar review. Prerequisite: SPN 222 or permission of instructor. Offered every semester.

SPN 322. COMPOSITION**4 sh****158**

Intensive practice in written expression focusing on refinements in structure, vocabulary expansion and a variety of writing tasks including preparation for formal academic writing. Includes intensive grammar review. Prerequisite: SPN 222 or permission of instructor. Offered every semester.

SPN 333. SPANISH CIVILIZATION**4 sh**

A study of the history, geography and people of Spain from prehistoric times to the present, which emphasizes Spain's many contributions to Western civilization. Prerequisite: SPN 322 or permission of instructor. Offered every other year.

SPN 334. LATIN AMERICAN CIVILIZATION**4 sh**

This course examines Latin American geography, history, art, architecture, music, government, economy, ethnicity, languages and culture, including a study of each country. Prerequisite: SPN 322 or permission of instructor. Offered every other year.

SPN 335. LATINOS IN THE U.S.**4 sh**

This course is an interdisciplinary study of the diversity of the culture, history, and social, economic and political situation of the Latino population in the United States. We will approach the subject through literature, film and music, through current articles from various disciplines and through direct contact with the local Latino population. This course continues to develop student's language skills in Spanish. Course conducted in Spanish. Prerequisite: SPN 322 or equivalent or instructor's permission and successful completion of the sophomore writing assessment. Readings in Spanish and English. Offered every other year.

SPN 350. INTRODUCTION TO LITERARY ANALYSIS IN SPANISH 4 sh

This course is designed to teach students basic techniques in the analysis of literary texts, as well as terminology and concepts used in the close reading and understanding of four literary genres: narrative, poetry, drama and the essay. Readings from both Latin America and Spain will be studied. Students will practice using literary tools as they read, discuss and compose written analyses of selected texts, thereby preparing them for more advanced courses in Spanish and Spanish American literature. Prerequisite: Spanish 322, at least four years of high school Spanish or instructor's permission. Offered every semester.

SPN 351. SURVEY OF PENINSULAR LITERATURE 4 sh

This overview of literature from Spain studies literary texts of several genres and includes a representative range of historical periods and cultural movements. Prerequisite: SPN 350 Introduction to Literary Analysis in Spanish or permission of instructor. Offered every other year.

SPN 352. SURVEY OF LATIN AMERICAN LITERATURE 4 sh

This overview of Latin American literature in Spanish studies literary texts of several genres and includes a representative range of historical periods, cultural movements and countries. Prerequisite: SPN 350 Introduction to Literary Analysis in Spanish or permission of instructor. Offered every other year.

SPN 353. STUDIES IN PENINSULAR LITERATURE 4 sh

This course provides in-depth study of a particular genre, work, author, cultural element or other literary topic from Spain. Course may be repeated as long as the theme is varied. Prerequisite: SPN 350 Introduction to Literary Analysis in Spanish or permission of instructor. Offered every other year.

SPN 354. STUDIES IN LATIN AMERICAN LITERATURE 4 sh

This course provides in-depth study of a particular genre, work, author, regional theme or other topic from Latin American literature. Course may be repeated as long as the theme is varied. Prerequisite: SPN 350 Introduction to Literary Analysis in Spanish or permission of instructor. Offered every other year.

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SPN 371-379. SPECIAL TOPICS 4 sh

Topics may include advanced study of language, cinema, selected literary authors, periods, genres or regions. Prerequisite: SPN 322 or permission of instructor.

SPN 419. ADVANCED CONVERSATION FOR RETURNEES 2 sh

Designed for students who have mastered the basic concepts of the language and have spent a term or semester abroad in a Spanish-speaking program. Provides the advanced-level student with an opportunity to maintain speaking skills enhanced by the study abroad experience. Prerequisite: at least two courses above SPN 322 and at least one term abroad in a Spanish-speaking study abroad program or instructor's permission. Offered spring semester.

SPN 421. ADVANCED GRAMMAR I 4 sh

An intensive study of the most problematic parts of the Spanish verb system. Particular attention will be given to the two past tenses (preterit and imperfect), *ser* versus *estar* and the subjunctive. Composition, translation and oral practice will all be used to increase grammatical accuracy. Prerequisite: SPN 322 and an additional 4 semester hours of 300-level Spanish courses or permission of instructor. Offered every other year.

SPN 422. ADVANCED GRAMMAR II 4 sh

A continuation of SPN 421 Advanced Grammar I, but 421 is not a prerequisite for this course. Topics will include object pronouns and the dative of interest construction; other uses of pronouns; the passive voice and substitute constructions; impersonal constructions; relative clauses; adverbs and adverbial clauses; and prepositions, with particu-

lar attention to *por* and *para*. The course will include readings, compositions, and Internet research projects and class presentations. Prerequisite: SPN 322 and an additional 4 semester hours of 300-level Spanish courses or permission of instructor. Recommended, but not required: SPN 421. Offered every other year.

SPN 451. PHONETICS**4 sh**

This course is designed to give students an in-depth understanding of the phonetic system of the Spanish language and to perfect the student's pronunciation. Students will learn how sounds are produced and will learn to imitate native speakers accurately through a variety of classroom exercises, recordings and videos. Through phonetic transcription and listening exercises, students will learn to hear accurately and to distinguish between similar sounds. Students will also study with wide phonetic variations that occur within the Spanish-speaking world. Prerequisite: SPN 322 and an additional 4 semester hours of 300-level Spanish courses or permission of instructor. Offered every other year.

SPN 461. TRANSLATION**4 sh**

Designed to help advanced students refine their language skills and express themselves more accurately in Spanish by focusing on form through intensive translation practice. Includes practice in both Spanish-to-English and English-to-Spanish translations, incorporating concepts such as cognates and false cognates, metaphorical language, different registers and the importance of maintaining the tone and register of the original text in the translation. Different problems inherent in the translation process are discussed. Prerequisite: SPN 322 and an additional 4 semester hours of 300-level Spanish courses or permission of instructor. Recommended but not required: SPN 421, Advanced Grammar I. Offered every other year.

SPN 465. COLLOQUIUM ON HISPANIC STUDIES**4 sh**

This capstone course focuses on the critical study and analysis of specific historical moments, selected works, topics or themes in literary and cultural history. Course content will alternate between peninsular and Latin American topics, or combine readings from each area. As part of their senior assessment, students will complete original research on a topic, present their findings orally to the class and department members and write a research paper on the same topic in Spanish. In order to graduate with a Spanish major, students must pass this course with a C or better. Prerequisite: At least two courses beyond the 322 level and junior or senior standing. Offered fall semester.

SPN 481. INTERNSHIP**1-4 sh**

This course provides students with practical experience using Spanish in a professional setting and may include internships in teaching, social service, government service, business, etc., in the U.S. or abroad. Prerequisite: at least one course above the SPN 222 level and departmental approval.

SPN 491. INDEPENDENT STUDY**2-4 sh**

General Studies

Director: Professor Brayne

The General Studies Program gives breadth as well as depth to a college education. It provides students with opportunities to see the broad view of human civilization, experience great ideas and art and learn the science and math skills without which no contemporary leader or individual can be without.

Through training in writing and other communication skills, as well as in learning to work independently, to think critically and constructively, to handle quantitative data, to respect cultures worldwide and to develop habits of responsible leadership, this program develops the whole person. The General Studies program is a major focus of a college career from beginning to end — challenging students, preparing them for both leadership and independent thought and, most of all, deepening and enriching their lives.

GST 110. THE GLOBAL EXPERIENCE

4 sh

This first-year seminar examines public responsibility in a global context. It explores some of the implications created by cultural and natural diversity and the possibilities for human communication and cooperation within this diversity. The course emphasizes student and faculty creativity through active and collaborative learning; the seminar is writing intensive. First-year students only. Offered fall and spring.

GST 281. THE LIBERAL ARTS FORUM

2 sh

Students will work with the Forum, a student-run and SGA-funded organization, to select speakers, host their visits and prepare for conversations with them through reading, writing papers, making presentations and joining discussions. Offered fall.

GST 282. THE LIBERAL ARTS FORUM

2 sh

See description for GST 281. Offered spring.

GST 300-499. ADVANCED INTERDISCIPLINARY SEMINARS

These seminars are the capstone of the General Studies Program. Students work with faculty to examine an issue or topic from multiple viewpoints. The subjects of these seminars are chosen by individual faculty members and vary from semester to semester. More than 25 different topics are offered each academic year. The diverse topics reflect the expertise and interests of faculty from across the campus and allow students a wide range of choices. These courses require advanced critical thinking skills: students must weigh multiple opinions, evaluate theoretical and ethical positions and define and defend their own personal positions. Taken in the junior or senior year, these seminars are writing intensive, requiring students to write frequently and in a variety of ways. Prerequisite: successful completion of sophomore assessment.

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Selected recent seminars

These topics may, or may not, be offered in the future.

GST 338. AMERICAN ADOLESCENCE

4 sh

This interdisciplinary seminar explores the male and female experience of coming of age in America. We will study major psychological and sociological theories of adolescence and examine how the transition from childhood to adult life is represented in literature and film. Counts toward the Women's Studies/Gender Studies minor.

GST 346. CHILDBIRTH

4 sh

This course will provide students with the opportunity to explore the topic of childbirth from a personal, biomedical, psychosocial, cultural and historical perspective. Students will write a scholarly paper and work in teams to research particular areas related to childbirth. Counts toward the Women's Studies/Gender Studies minor.

GST 348. LIFE STORIES**4 sh**

This course helps students identify the “life stories” they are living. It draws on literary, psychological, religious and philosophical resources. Daily writing assignments from Sam Keen’s *Your Mythic Journey* will culminate in a personal story which remembers the past, reflects on the present, envisions a future and clarifies personal beliefs and values. Contemporary films such as *A River Runs Through It* and conversations with community partners will serve as additional catalysts for writing one’s story.

GST 365. QUEST FOR WHOLENESS**4 sh**

This course is a two-semester mentorship which meets once a week to create a space where learning and life can be integrated from the perspective of the humanities. The work of the year concentrates on the professional and personal, on work and relationships, on inner development and service to others. The inquiry touches all seven domains of life: personal, interpersonal, familial, institutional, cultural, planetary and the encompassing sphere of mystery.

GST 369. MEN AND MASCULINITY**4 sh**

This course will take an in-depth look at how various cultures (Western and non-Western) have defined masculinity. Sources of investigation will include literature, the media and social institutions such as the family, religion, politics, leisure and others. The course will explore how men conceptualize their bodies and spirits, and how they practice relationships with other men, women, parents and progeny. Counts toward the Women’s Studies/Gender Studies minor.

GST 384. THE KENNEDY ASSASSINATION AND FILM**4 sh**

This course will explore the details of the assassination of President John F. Kennedy and the way it has been presented in film. Special emphasis will be placed on the study of the assassination as a film genre and any residual effects on the world of motion pictures.

GST 401. LATINOS IN THE U.S.**4 sh**

This course is conducted in Spanish. The diversity of the culture, history and social, economic and political situation of the Latino population in the United States is studied through literature, film, music, current articles on the subject and direct contact with the population when possible. Readings will be assigned in Spanish and English. This course continues to develop students’ language skills toward the proficiency goals required of all majors. Prerequisite: successful completion of SPN 310 or equivalent or permission of instructor. Cross-listed with SPN 335.

GST 420. SCIENCE & RELIGION: BRIDGING THE GAP**4 sh**

This seminar is an exploration of the complex and fascinating interplay of these two ways of knowing. We will study the fundamental uncertainties that form borders to the reach of science and seek to build bridges to the realms of religious experience.

EXPERIENTIAL LEARNING**1 unit**

The Experiential Learning Requirement (ELR) asks students to practice close observation of the world around them and to reflect insightfully on those observations. Exposure to diversity helps students see the interrelationships between academic studies and other experiences. The requirement may be met through one of the following ways: (1) field-based courses: study abroad, internships/co-ops, practicums and student teaching; (2) independent research conducted under the direction of a professor; (3) 40 hours of pre-approved service/volunteer activities (see Kernodle Center for Service Learning); (4) 40 hours of pre-approved leadership activities (see Leadership Development Office); and (5) 40 hours of pre-approved individualized learning activities (see Career Center).

Geographic Information Systems

Coordinator: Assistant Professor Xiao

Associate Professors: H. Frontani, MacFall, Morgan, Powell

Lecturer: Kleckner

The Geographic Information Systems minor is designed to prepare students with the basic training necessary to enter the rapidly expanding field of geographic information science (GIS). Employment opportunities are limitless for students who are proficient with this interdisciplinary tool. Well-qualified GIS specialists are sought in the areas of environmental study, physical sciences, business, economics, education, government, planning and international industries. The minor is designed to provide students with basic knowledge and skills in GIS, remote sensing, cartography, database management and computer technology, and to explore application of these skills in courses selected from a wide variety of disciplines. Students are given hands-on experience with state of the art computer programs and software.

This minor includes core courses from the Computing Sciences, History & Geography, Political Science & Public Administration Departments and the Environmental Studies program. There are two components to the curriculum: a set of core courses required of all students enrolled in the program and a set of selective courses that permit exploration of more advanced themes in GIS and/or development of individual research projects or internships in GIS.

A minor in Geographic Information Systems requires the following courses:

ENS/GEO 350	Introduction to Geographic Information Systems	4 sh
CIS 113	Introduction to Database Systems	2 sh
CIS 216	Programming in a Visual Environment	4 sh
GEO 355	Introduction to Cartography	2 sh
GEO 356	Introduction to Remote Sensing	2 sh
GIS 460	Advanced GIS	4 sh

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One discipline-specific course that includes a GIS component from:

GEO 121	Introduction to Physical Geography	4 sh
ENS 111/113	Introduction to Environmental Science	4 sh
PUB 334	GIS Applications for Administration and Planning	4 sh

Total		22 sh
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GIS 460. ADVANCED GIS

4 sh

This advanced-level course in Geographic Information Systems (GIS) will build on the techniques learned in ENS/GEO 350 (Introduction to Geographic Information Systems) by exposing students to more advanced methods in developing and utilizing GIS data. It is designed primarily to provide students with an in-depth understanding of GIS applications, the theoretical/conceptual side of algorithms in GIS software and GIS research trends. Prerequisites: GEO 350, GEO 356.

Geography

Coordinator: Associate Professor H. Frontani

Assistant Professor: Honglin Xiao

The geography program offers a minor in Geography. Geography explores the dimensions of space. How does location affect societies, economics, politics, culture and ecosystems? How do we analyze, describe and construct boundaries, both natural and human, which we then impose on the physical and intellectual worlds we live in? The study of geography is much more than maps. It includes study of both the natural world and the varied patterns of human life on both the macro and micro scales.

Graduates with training in geography are sought as *Geographic Information Systems Specialists* to work with GIS computer mapping software and related technology for government at the local, state or federal level as well as for a wide variety of businesses and corporations; *Regional Specialists* to work for the Central Intelligence Agency, Foreign Service, Peace Corps or community activist organizations; *Business, Economist and Population Geographers* to work for insurance companies, in real estate, for federal agencies such as the Census Bureau or to work in market-oriented businesses; *Environment and Recreation Specialists* to work for botanical gardens, the U.S. Forest Service, the U.S. Park Service or parks and recreational agencies; and *Teachers and Map Librarians* to work at elementary or secondary schools or at universities.

Several geography courses count towards area concentrations in the International Studies major and the Society and Environment concentration in the Environmental Studies major. Our GIS lab offers opportunities for hands-on learning and to obtain the latest computer mapping and spatial analysis skills. Gamma Theta Upsilon, the International Honor Society in Geography, has a campus chapter.

A minor in Geography requires the following courses:

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GEO 121	Introduction to Physical Geography	4 sh
GEO 131	The World's Regions	4 sh
One course from:		4 sh
ENS 111/113 Introduction to Environmental Science and Lab		
PHY 103 Introduction to Geology		
POL 141 International Relations or		
Any 200-level geography course		
Eight semester hours of GEO elective at 300-400 level		8 sh
TOTAL		20 sh

GEO 121. INTRODUCTION TO PHYSICAL GEOGRAPHY

4 sh

Students will examine the processes which control the spatial distribution of climate, vegetation, soils and landforms. Topics include earth-sun geometry, global energy balance, hydrology, tectonics weathering and mass wasting, climatic classification and climatographs, arid land and coastal and fluvial geomorphology. Focus will be on the Earth as the home of humans and the impact of humans on their environments.

GEO 131. THE WORLD'S REGIONS

4 sh

This survey of the regions of the world emphasizes place names and environmental and human characteristics which provide both the common traits and the distinctive characteristics of different places. Students analyze change, problems, potentials and alternative futures and use traditional and electronic data sources, atlases and methods of data presentation. Offered fall and spring.

GEO 310. DEVELOPMENT AND THE ENVIRONMENT IN LATIN AMERICA, AFRICA AND SOUTH ASIA**4 sh**

This course is concerned with environmental issues primarily in "developing" countries. This course will provide a forum for discussing and analyzing the geopolitics of international environmental conservation programs often devised in wealthier countries but applied in the "third world" as well as the social and environmental consequences of large-scale and small-scale development projects.

GEO 320. AFRICA'S PEOPLE AND ENVIRONMENTS**4 sh**

This course surveys the physical, cultural and political-economic geography of Africa with an emphasis on human-environment relationships. Important themes include the diversity of people (ethnicity, gender and religion), social unrest, refugees, AIDS, drought and famine, urbanization, endangered species, wildlife conservation and parks. Students may participate in an experiential learning project. Counts toward a minor in African/African American Studies.

GEO 345. GLOBAL ENVIRONMENTAL CHANGE**4 sh**

This course explores the physical and human geographical aspects of global environmental change, focusing on the effects of past climatic changes upon present landscapes, historic short-term fluctuations in temperature and precipitation, possible explanations for climatic change over time, the impact of human action on the Earth and its environmental systems, and the projection of future environmental changes. This course will also seek to provide students with an understanding of the latest scientific investigations and technology in environmental studies.

GEO 350. INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS**4 sh**

In this course, the student will be introduced to the concept of visualizing, exploring and analyzing data geographically. The student will obtain hands-on experience of display, analysis and presentation of mapping functions using the latest ArcView GIS software. Assignments will be geared toward environmental management and decision making. GEO 350 is cross-listed with ENS 350. Offered in the fall.

GEO 355. INTRODUCTION TO CARTOGRAPHY**2 sh****165**

This course serves as an introduction to the art and science of cartography, covering its history, basic elements of maps, map projections, scales and generalization, measurements from maps, topographic features, qualitative and quantitative information, basic surveying techniques, the elements of map design and the presentation, compilation and production of maps using a variety of different mapmaking techniques and technologies.

GEO 356. INTRODUCTION TO REMOTE SENSING**2 sh**

This course provides an introduction to the basic concepts and processes of remote sensing, covering the principles of electromagnetic radiation and its interaction with the atmosphere and earth surface, basic photogrammetry, aerial photographs and satellite data interpretation, and digital image processing. Students will be exposed to remote sensing theory and hands-on exercises involving satellite data using the industry standard computer programs.

GEO 360. ADVANCED GIS**4 sh**

This advanced level course in Geographic Information Systems (GIS) will build on the techniques learned in ENS/GEO 350 (Introduction to Geographic Information Systems) by exposing students to more advanced methods in developing and utilizing GIS data. It is designed primarily to provide students with an in-depth understanding of GIS applications, the theoretical/conceptual side of algorithms in GIS software and GIS research trends. Prerequisite: GEO 350 or permission of instructor.

GEO 481. INTERNSHIP IN GEOGRAPHY**1-4 sh**

Internship is limited to four semester hours credit toward geography minor.

Prerequisites: GEO 121, 131 and permission of instructor.

GEO 491. INDEPENDENT STUDY**1-4 sh****GEO 499. INDEPENDENT RESEARCH****1-4 sh**

Students engage in independent research projects related to the field of geography in conjunction with a faculty mentor. Prerequisites: junior or senior status and geography program approval.

Health Education

Chair, Department of Health and Human Performance: Associate Professor J. Davis

Professors: Beedle, Calhoun

Associate Professor: Miller

Assistant Professors: Allen, Hall, Parson, Smith

Lecturers: Hedrick, Tapler, Walch

The health education curriculum is located within the Department of Health and Human Performance. Courses in health education are required for students majoring in Physical Education, Athletic Training and Exercise/Sport Science.

HED 111. CONTEMPORARY WELLNESS ISSUES**2 sh**

Students will study selected topics in personal wellness. Topics may include nutrition and weight control, exercise for health and wellness, psychosocial aspects of health and wellness and the effects of alcohol and other drugs. Students will examine current issues pertaining to personal choices and well-being. This course meets half-semester.

166 HED 220. FIRST AID**1 sh**

This is a course which provides a background in first aid and CPR principles, procedures and skills emphasized in the latest American Red Cross courses. Consideration is given to personal and community safety in everyday living. Special fee: \$23.

HED 321. HEALTH SERVICES AND CONSUMERISM**4 sh**

This introduction to comprehensive health education emphasizes health trends, objectives, products, services and factors that influence personal choice in the health marketplace. Students study methods of identifying and managing major health risk behaviors and investigate health education in the school and community, health services, resources, networking and health promotion. Experiential hours in a community health agency required. Prerequisite: junior/senior standing.

HED 324. NUTRITION**4 sh**

This course provides a comprehensive study of nutrient basics, digestion, metabolism, vitamins, minerals, supplements, steroids, weight management, eating disorders, nutritional deficiencies and imbalances. Emphasizes practical application of nutrition concepts throughout the life cycle and investigates food technology and food safety. Prerequisite: junior/senior standing. Prerequisite: BIO 162.

HED 325. SUBSTANCE ABUSE AND HUMAN BEHAVIOR**4 sh**

This course provides a comprehensive study of factors influencing alcohol and other drug use including personality, societal and biological factors. Emphasizes prevention through the curriculum, identifying the high-risk student and appropriate referrals in the school system and community. Students will gain experience using technology as a strategic resource related to this topic. Prerequisite: junior/senior standing.

HED 326. HUMAN SEXUALITY 4 sh

This course provides a comprehensive study of biological and psychosocial sexuality throughout the life cycle, including male and female physiology, contraception, pregnancy, childbirth, sexually transmitted diseases, gender roles, intimate relationships, parenting and deviant sexual behavior. Prerequisite: junior/senior standing.

HED 362. HEALTHFUL LIVING IN THE ELEMENTARY SCHOOL 2 sh

This course provides a study of health, safety and physical education needs of elementary children (including content and methodology) and the integration of those needs with the curriculum. Observation hours in the public schools required. Prerequisite: EDU 211.

HED 421. CHRONIC AND ACUTE DISEASES 4 sh

Students study the interdependency of body systems and diseases and conditions that affect human health and well-being. Topics include the historical foundation of health professions, immunology, pathophysiology of prominent acute and chronic diseases, sociocultural factors that influence health, and consequences and prevention of major health risk behaviors. Methods of health appraisal and screening are also investigated. Prerequisites: BIO 161, 162.

HED 491. INDEPENDENT STUDY 1-4 sh**HED 499. RESEARCH IN HEALTH EDUCATION** 1-4 sh

History

Chair, Department of History: Professor Bissett
 Professors: Crowe, Digre, Festle, Midgett, G. Troxler
 Associate Professors: J. O. Brown, Ellis
 Assistant Professors: Carignan, Chang, Clare, Irons, Nemcik
 Adjunct: Cockrell

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The study of history centers on exploration of various economic, social, political, military and religious forces that have transformed the face of the world. It combines analytical thinking and writing with a detailed grasp of the many influences that have brought about historical change.

History is a discipline that explores the dynamics of change from humanistic and social scientific perspectives. Because of the breadth and depth of historical investigation, students who choose to major or minor in history at Elon University find themselves well prepared for careers that require interaction with people and the ability to write and think analytically.

A major in History requires the following courses:

HST 111	Europe and the Mediterranean World to 1660	4 sh
HST 112	Europe and the Mediterranean World since 1660	4 sh
HST 301	Research Methods	4 sh
Choose one course from:		4 sh
HST 121	United States History through 1865	
HST 122	United States History since 1865	
HST 123	United States and North Carolina since 1865	
Twenty-four hours history electives, 16 of which must be at the 300-400 level:		24 sh

U.S. History (8 sh)	
non-U.S. History (8 sh)	
other electives (8 sh)	
One history seminar course including completion of a senior thesis	4 sh
TOTAL	44 sh

It is strongly recommended that history majors, in consultation with their advisor, select a topical or regional concentration of 12 semester hours at the 300 level and above. Concentration courses will be chosen from among the required 24 elective hours. With the approval of the department chair, four hours from outside the history department may be applied toward the concentration and the elective history credit hour requirement. The history department strongly recommends that history majors considering graduate school take a foreign language.

History majors receiving teacher licensure must complete the following courses:

HST 111	Europe and the Mediterranean World to 1660	4 sh
HST 112	Europe and the Mediterranean World since 1660	4 sh
HST 121	United States History through 1865	4 sh
HST 123	U.S. and North Carolina since 1865	4 sh
HST 301	Research Methods	4 sh
One history seminar course		4 sh
Twelve hours HST electives at the 300-400 level chosen from each of the following areas:		12 sh
1) U.S. Minority History (African-Americans, Native Americans and Women in the U.S.)		
2) Europe		
3) Developing World (Africa, Latin America and Asia)		
GEO 131	The World's Regions	4 sh
POL 111	American Government	4 sh
ECO 201	Principles of Economics	4 sh
Set of Professional education courses		35 sh
TOTAL		83 sh

A minor in History requires the following:

Four semester hours chosen from:		4 sh
HST 111	Europe and the Mediterranean World to 1660	
HST 112	Europe and the Mediterranean World since 1660	
HST 221	The World in the Twentieth Century	
Four semester hours chosen from:		4 sh
HST 121	United States History through 1865	
HST 122	United States History since 1865	
HST 123	The United States And North Carolina Since 1865	
Twelve semester hours of history electives at the 300-400 level		12 sh
TOTAL		20 sh

HST 111. EUROPE AND THE MEDITERRANEAN WORLD TO 1660 4 sh

This survey of major developments in the Mediterranean world begins with ancient

Mesopotamian and Egyptian civilizations. Students also explore the evolution of the great formative cultures of the Western world (Greece and Rome) and the Middle East and look at their interaction during the Middle Ages, the Renaissance, the Reformation and the beginnings of early modern Europe. Offered fall and spring.

HST 112. EUROPE AND THE MEDITERRANEAN WORLD SINCE 1660 4 sh

A survey of major developments in the Mediterranean world from 1660 to the present, this study covers the rise of the major European powers during the period and discusses their interaction with one another and the Middle East and North Africa, particularly in the 19th and 20th centuries. Offered fall and spring.

HST 121. UNITED STATES HISTORY THROUGH 1865 4 sh

This survey of early U.S. history includes the major political, social, economic and intellectual developments in the U.S. from the first explorations of the continent through 1865, and considers the implications of these events and developments on the American experience after 1865. Offered fall and spring.

HST 122. UNITED STATES HISTORY SINCE 1865 4 sh

The study of U.S. history continues in this course with emphasis on the major political, social, economic and intellectual developments in the nation from the Civil War to the present. The course also examines how events and developments that occurred prior to 1865 influenced the nation's evolution after the Civil War. No credit for students with prior credit for HST 123. Offered fall and spring.

HST 123. THE UNITED STATES AND NORTH CAROLINA SINCE 1865 4 sh

This survey of U.S. history since the Civil War places special emphasis on how major political, social, economic and intellectual developments in the nation have influenced North Carolina. The course also examines how events and developments that occurred prior to 1865 influenced the nation's evolution after the Civil War. No credit for students with prior credit for HST 122. Offered fall and spring.

HST 131-149. SPECIAL TOPICS 2-4 sh

These courses are designed for entry-level students and address specific topics. Each topic is examined in broad historic context. These courses meet the General Studies requirement. Previous topics have included: the Civil Rights Movement, Anti-Communism in America, Jews and Gypsies in Western Civilization and Being and Becoming Indian.

HST 221. THE WORLD IN THE 20TH CENTURY 4 sh

This survey of contemporary history examines critical events, ideologies and movements that have shaped our world. Students gain an understanding of the historical context of current global issues by examining developments in Africa, Asia, Europe, Latin America and the Middle East. Offered spring.

HST 241. U.S. HISTORY STUDY TOUR 4 sh

Through readings, discussions and visits to historic sites, students will learn about major turning points, issues and actors in U.S. history. Students will grapple with the contested nature of historical interpretation and identify some of the "driving forces" that have caused and influenced Americans' experiences. Open to freshmen Teaching Fellows only. Offered winter.

HST 251. HISTORY STUDIES ABROAD 4 sh

This course offers a specialized study for those participating in abroad programs. Offered winter.

HST 301. RESEARCH METHODS 4 sh

Students will focus on framing and answering historical questions using a variety of research techniques and both primary and secondary source materials. They will formulate and execute a research project that will result in both a written and oral presentation of their findings. Offered fall and spring.

*Africa***HST 313. MODERN AFRICA****4 sh**

This survey course explores developments in Africa during the past century (especially regions south of the Sahara) and examines African responses to European imperialism, African independence and the problems faced by the new African states.

HST 314. A HISTORY OF SOUTHERN AFRICA**4 sh**

This course examines the forces that have shaped the history of South Africa and its neighbors in the 19th and 20th centuries, focusing on the effects of apartheid on modern South African society.

*Russia***HST 316. THE HISTORY OF IMPERIAL RUSSIA TO 1917****4 sh**

This course explores the major developments in the history of the Russian state from its origin in the 9th century to the collapse of the tsarist system in 1917. Topics include Kievan Rus and the Mongols, the rise of Moscow, the Westernization efforts of Peter and Catherine the Great and the gradual transformation of Russia from its wars with Napoleon through the overthrow of the Romanov dynasty.

HST 317. RUSSIA AND THE SOVIET UNION SINCE 1917**4 sh**

This study of modern Russian history explores the Bolshevik communist system, considers the transformation of the Soviet state under Lenin and Stalin and studies Russia's role in World War II and its impact on the USSR afterwards. Topics include the emergence of the Soviet Union as a world power under Stalin, Khrushchev and Brezhnev; Soviet domestic events under all three men and the impact of Mikhail Gorbachev, Boris Yeltsin and other recent Russian leaders.

*Asia***HST 320. CHINA, JAPAN & THE PACIFIC CENTURY: ERA OF WAR AND REVOLUTION****4 sh**

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Pearl Harbor and Hiroshima are infamous names in world history. In many ways they represent the end result of a century of conflict and revolution in Asia that centered around Western efforts to force themselves into the mainstream of Chinese and Japanese societies. This course will explore these conflicts and their impact not only on these two important Asian nations, but on all of the countries that ring the Pacific Rim such as Russia, the United States, Canada and Australia.

*British Isles***HST 323. THE MAKING OF THE ENGLISH NATION TO c. 1660****4 sh**

A study of English customs, church, common law system, monarchy, national identity and the migration of these features to America. The course spans the development of an English people (Celtic, Roman, Anglo-Saxon, Viking and Norman French) and the ruptures which produced civil war and an English Republic: episodes formative of American political values.

HST 324. ENGLAND WITHIN THE BRITISH EMPIRE: 17TH CENTURY TO THE PRESENT**4 sh**

This course examines the social, religious and constitutional conflicts of the 1640s and the 1680s and their impact on colonial America. This study also traces later changes in the English society, economy and form of government, the United Kingdom's changing role in Europe and the world, and changes in social roles and attitudes, particularly regarding class, gender and race.

HST 325. TOPICS IN MODERN BRITISH HISTORY**4 sh**

This course is organized around a central topic or theme, the study of which provides insight into important developments in modern British history. The course is offered only in London and is limited to students enrolled in the Semester in London Program.

HST 326. HISTORY OF IRELAND**2 sh**

This study includes Ireland's political and cultural history as well as its influence on the U.S. through emigration. Celtic cultural continuity and adaptation from the early Middle Ages to the present are explored through traditional folkways, music, tales, art and literature in historical contexts.

HST 327. HISTORY OF SCOTLAND**2 sh**

Focus is on Scotland's evolution as a nation sharing an island with Wales and England. We explore the role of Celtic and Viking cultural continuity in shaping a Scot consciousness centered on a Highlands ideal and perpetuated by emigration. Students use oral history, folkways and musical and balladry traditions in historical contexts.

*Europe***HST 331. WORLD WAR I IN FILM AND LITERATURE****4 sh**

In this course, we will examine the poetry, novels, memoirs and films of the First World War to trace, not only the history of the war and its impact on literature, but also how popular perception of the war has changed in the decades since it ended. Offered winter.

HST 332. DAILY LIFE IN EARLY MODERN EUROPE, 1350-1750**4 sh**

This course examines how Europeans lived, day to day, from the time that the Black Death swept the continent to the Industrial Revolution. Topics include marriage, food, housing, witchcraft, clothing, court life, violence, sports, religion, childhood and death. Students examine life in the countryside and town, as well as the rich, the poor and everyone in between.

HST 335. GROWTH OF MODERN EUROPE, 1789-1914**4 sh**

This course explores the period between the French Revolution and World War I as modern Europe emerged from the old regime. It centers on the development of mass politics, the widespread impact of the Industrial Revolution, changes in women's public and private roles, cultural developments from neoclassicism to modernism and the evolution of modern consciousness.

HST 336. EUROPE, 1914-1945**4 sh**

This course provides a study of European history focusing on the two World Wars, the search for stability in the inter-war years and the rise of totalitarianism.

HST 337. EUROPE, 1945 TO THE PRESENT**4 sh**

Discussions in this course cover the Cold War, the end of colonial rule, the rise of the European Community, social and intellectual trends, the collapse of communism and the reawakening of nationalism in Eastern Europe.

HST 338. GERMANY: WAR, DEMOCRACY AND HITLER, 1914-1945**4 sh**

This course will explore the history of Germany from the outbreak of World War I through the end of World War II. It begins with an examination of the Second Reich (1871-1918) but concentrates on the two world wars and Germany's experiments with democracy during the Weimar Republic and dictatorship during the Nazi era.

HST 339. A HISTORY OF THE HOLOCAUST**4 sh**

This history of the Holocaust explores the roots of this event, beginning with historical anti-Semitism and the impact of this tradition on Adolph Hitler and the Nazis. Topics also include Hitler's racial policies between 1933-1938, their spread throughout Nazi

Europe between 1939-1941, the evolution of the Final Solution from 1941-45 and post-World War II Holocaust developments and questions.

Western Hemisphere

HST 341. MODERN CENTRAL AMERICAN HISTORY

4 sh

This course will introduce the dominant themes of Central American social and political history from independence in the early 19th century through the present day. We will focus on the process of independence, liberalism and the coffee boom, dictatorships and revolutions, counter-revolutions, civil war and United States intervention in the region. We will examine the reasons why the region has been plagued by dictatorships and rebellions throughout the modern era, and why Costa Rica has, in general, been an exception to this trend. The course will additionally address the ways in which ethnicity, class and gender figured into the social movements of resistance and rebellion in modern Central America. The course will emphasize the critical evaluation of primary and secondary source materials reflecting different perspectives on these issues in the region's history. The goal of the course is to enable students to gain an understanding of problems confronting present day Central America by placing them in a historical perspective. Offered spring.

HST 350. HISTORY OF BRAZIL

2 sh

This course is intended to be an introduction to the history and culture of Brazil, examining the changes and continuities in Brazilian history from the colonial period through the twentieth century. The course explores the influence of colonial and 19th century heritages and of 20th century national and international relations on the formation of modern Brazilian politics, economics and society. A major focus of the course is the interrelationship of the cultures that comprise Brazil — indigenous, Portuguese and African — and how these relationships have changed over time, as well as the significant role played by race, class, gender and ethnicity in the shaping of modern Brazilian culture and society. Offered spring.

HST 351. HISTORY OF MEXICO

2 sh

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An introduction to the history of Mexico and to its contemporary cultural and political life. The role of native peoples is emphasized in the early colonial period and in recent developments. The course also explores Mexico's relationship with the U.S.

HST 352. HISTORY OF CANADA

2 sh

An introduction to the history of Canada and to its contemporary cultural and political life. Focus is on the development of a Canadian national identity and on present day expressions of that identity within Canada's multicultural context. Offered winter or summer.

HST 353. COLONIAL LATIN AMERICA

4 sh

This course will survey the history of Latin America from pre-Colombian times through the wars for independence at the beginning of the 19th century. The course seeks to explain the development of a multicultural, multiethnic and multilingual society in Latin America by studying the cultures of pre-Columbian and Iberian societies, the complexities of the interaction between these different cultures as they "met in the Americas" and the historical processes through which new cultures evolved. Some of the major topics that will be discussed include Amerindian culture, the encounter between Europeans and Amerindians (otherwise known as the Conquest), the rise and fall of colonial empires and colonial society, and the civil wars of independence. Offered fall.

HST 354. MODERN LATIN AMERICA

4 sh

This course will survey the history of Latin America from the early 19th century to the present. The goal of the course is to enable students to gain an understanding of issues in contemporary Latin America by placing them in a historical perspective. The course

is structured thematically focusing on subjects including the social implications of various models of economic development, the opportunities and problems which result from economic ties to wealthy countries, changing ethnic, gender and class relations in Latin America and the diverse efforts of Latin American people to construct stable and equitable political, economic and social systems. In examining these topics, examples will be drawn from the histories of various Latin American countries. Offered fall.

HST 355. CREATING HISTORY: RECORDING THE REMEMBERED PAST

4 sh

Students learn and practice the techniques of interviewing living historical actors who were involved in a particular period or issue in history, moving from preparatory research through transcribing the results. They also study oral history's strengths, weaknesses, ethics and uses. The specific research topics will vary.

HST 356. EARLY NATIONAL PERIOD, (1787-1840): FORCES THAT SHAPED THE NATION

4 sh

A study of the thought that produced the American Constitution and the implementation of that national government during the administration of its first seven presidents. Topics examine political, social and economic forces that affected national decisions and development.

HST 357. AMERICA'S CIVIL WAR: NATIONAL CATAclysm

4 sh

Beginning with the era of Andrew Jackson, this course focuses on the geographic, economic, social and political dynamics that tore the nation apart. Students analyze the causes of the Civil War and examine its military, social and political facets. A concluding study of the Reconstruction of the nation explores the resolution (or not) of the issues that generated the conflict.

HST 358. THE U.S., 1877-1940: THE CONSEQUENCES OF MODERNIZATION

4 sh

Focusing on the transformation to industrial capitalism, this course explores the major developments in American history from the end of Reconstruction to the beginning of World War II. Students examine the Gilded Age, progressivism, World War I, prosperity and nativism in the 1920s, the Great Depression and the New Deal, and the coming of war in Europe and Asia.

173

HST 359. THE UNITED STATES SINCE 1940: RECENT AMERICAN HISTORY

4 sh

This study of recent American history is organized around four major themes: America in World War II, America's obsession with stopping the spread of Communism, the tumultuous social movements of the 1960s and the disillusionment caused by Vietnam and Watergate. Class discussions center on how these events continue to affect American institutions.

HST 360. MODERN AMERICAN HISTORY IN FILM

4 sh

Students will, through group activities, class discussions and independent work, learn how twentieth century United States history has influenced the growth of the American cinema, while concurrently discerning the impact of film on the evolution of modern American culture. Offered winter.

HST 361. NORTH CAROLINA IN THE NATION

4 sh

This course traces N.C. history from the first European contact to the present in the wider context of U.S. history. Topics include N.C. as a microcosm of the region and nation; Reconstruction and the New Deal; and N.C. political, economic, social and geographical features as related to national trends. Discussion also covers how family and community history are preserved and how the study of local history can enhance public understanding of national events.

HST 362. THE SOUTH IN AMERICAN HISTORY: REGIONAL SUBCULTURAL PERSISTENCE

4 sh

This course examines the South (especially post-Civil War) as a distinctive region of the

U.S., including reasons for such distinctiveness and its impact on the nation's history.

HST 363. AFRICAN-AMERICAN HISTORY, 1850-PRESENT

4 sh

Beginning with the slave system in the mid-19th century, this course examines recurring issues and problems in African-American history through the post-Civil Rights era. Study focuses on three themes: the similarity and differences of African-American experiences; the extent to which they were oppressed yet also had choices; and their strategies to cope with their social and political situations.

HST 364. HISTORY OF WOMEN IN THE U.S.

4 sh

This course surveys the experiences of women in the U.S., emphasizing their changing political and economic status and gender role expectations. Topics focus on the historical factors — politics, war, social movements, technology and ideology — that caused such changes, strategies women utilized to change or cope with their situations, and differences among women.

HST 365. SOCIAL MOVEMENTS IN POST-CIVIL WAR AMERICA

4 sh

This course covers organized efforts to change American society since Reconstruction, including social movements from Populism in the late 1800s to the Civil Rights movement in the 1960s and the responses to these movements.

HST 367. AMERICAN MILITARY HISTORY THROUGH 1865

2 sh

Focus is on the impact of the American Revolution on the evolution of the Army and Navy, the relationship between military power and a growing sense of nationhood and the American Civil War. Students will explore causes of military conflicts, the strategy and tactics of campaigns and the impact of the resolution of these conflicts.

HST 368. AMERICAN MILITARY HISTORY SINCE 1865

2 sh

This course analyzes military power as a component of foreign policy. Students concentrate on America's shift from an isolationist nation to a major world power by examining the Spanish-American War, World War I, World War II, the Korean Conflict, Vietnam and recent engagements.

174 HST 369. AMERICAN INDIAN HISTORY

4 sh

Stressing the active role that Indian people have taken in the creation of their own history, this course focuses on complicated cultural and historic realities. Topics include pre-Columbian Indian societies, cultural adaptation, removal, the Reservation Age, resistance movements, the Indian New Deal, postwar activism and cultural revitalization.

HST 460-469. SEMINAR: SPECIAL TOPICS

4 sh

A capstone experience for majors, this course offers students practical experience in researching, writing and presenting a senior thesis. Past topics have included the Holocaust, American Indian Religion, Nazi Germany, Human Rights in Latin America, Gender and Sexuality in American History and Twentieth Century Europe. Prerequisite: HST 301 or permission of the instructor. Offered fall and spring.

HST 481. INTERNSHIP IN HISTORY

2-4 sh

Designed to provide students with practical experience in history-related professions, activities included in the internship enable students to explore careers in archives, record management, historic sites, museum administration, etc. Prerequisite: 18 semester hours of history.

HST 491. INDEPENDENT STUDY

2-4 sh

Open to junior/senior majors/minors or others with permission of instructor.

HST 499. RESEARCH IN HISTORY

1-4 sh

Open to junior/senior majors/minors or others with permission. In conjunction with a faculty mentor, the student will formulate and execute an original research project that will culminate in a formal presentation. A research proposal form completed by the student and faculty mentor is required for registration.

Human Services

Chair, Department of Human Services: Professor Kiser

Associate Professor: Fair

Assistant Professors: Esposito, Glass, Warner, Wasik

Adjunct: Felts

The Human Services major prepares students to work as practitioners in a variety of professional service settings such as social services, mental health, family services, corrections, gerontology, child care, youth programs, group homes and many others. The Human Services curriculum guides the student through gaining the knowledge, skills and experience necessary to work effectively with a variety of populations.

Students engage in extensive fieldwork in Human Service agencies as part of their studies. Through the classroom and field components of the major, students examine critically a range of human and societal problems and the programs and services designed to address them, acquiring an understanding of the societal, cultural and personal variables which contribute to the development of human problems and to their solution.

The Human Services major draws upon knowledge in the social sciences, especially psychology and sociology, and emphasizes the application of this knowledge to the improvement of human life and society. In order to apply this knowledge effectively, students develop a variety of skills including those involved in oral and written communication, problem solving, developing professional helping relationships, organization and administration.

A major in Human Services requires the following courses:

HUS 111	Introduction to Human Services/ELR	4 sh
PSY 111	General Psychology	4 sh
SOC 111	Introductory Sociology	4 sh
HUS 212	Counseling Individuals & Families	4 sh
HUS 213	Counseling Groups & Communities	4 sh
HUS 285	Research Methods	4 sh
HUS 381	Practicum in Human Services	4 sh
HUS 411	Administration of Human Service Agencies	4 sh
HUS 412	Professional Communication	4 sh
HUS 461	Senior Seminar	4 sh
HUS 481	Internship in Human Services	8 sh
Eight semester hours selected from four hour Human Services courses		8 sh

TOTAL	56 sh
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Prior to taking HUS 381 students must be approved by the Human Services department. A minimum grade point average of 2.1 is required to be eligible for Practicum.

Most of the other major requirements must be completed prior to taking HUS 481. Students who enroll in HUS 481 may not take any courses other than the prescribed block courses. A minimum grade point average of 2.2 is required to be eligible for Internship. Applications for both Practicum and Internship must be completed by May 1 in order to enroll in these courses the following year. Applications are available in the office of the department chair.

A minor in Human Services requires the following courses:

HUS 111	Introduction to Human Services/ELR	4 sh
HUS 381	Practicum in Human Services	4 sh
One course from the following:		4 sh
PSY 111	General Psychology	
SOC 111	Introductory Sociology	
One course from the following:		4 sh
HUS 212	Counseling Individuals & Families	
HUS 213	Counseling Groups & Communities	
Four semester hours Human Services course		4 sh
TOTAL		20 sh

HUS 101. LEADERSHIP **2 sh**

This course combines study and practical experience to increase knowledge and skills in leadership development and is appropriate for both emerging and established leaders. No credit toward Human Services major.

HUS 102. PEER COUNSELING **2 sh**

In this study/practical experience course students develop skills in interpersonal relations, gain an understanding of personal and community problems and learn to view the residence hall as a community. Required of all Resident Assistants. No credit toward Human Services major.

HUS 111. INTRODUCTION TO HUMAN SERVICES/ELR **4 sh**

This course explores the history and values of the Human Services profession, examines theoretical approaches to Human Services work, provides an overview of the Human Services system in the United States and acquaints students with the roles and responsibilities of Human Services professionals. A minimum of 40 hours of field work in an approved Human Services setting is required. Meets ELR. Offered fall and spring.

HUS 212. COUNSELING INDIVIDUALS AND FAMILIES **4 sh**

This course examines various theories and methods used in helping families and individuals resolve problems. Students gain skills in applying these theories and methods through use of case studies, role playing, simulations and other experiential methods. Prerequisite: HUS 111 or PSY 111. Offered fall and spring.

HUS 213. GROUPS AND COMMUNITIES **4 sh**

Students will examine the role and history of working with groups and communities in the Human Services system. Theories and methods used in working with groups and communities will also be studied. Topics addressed in the course include group dynamics and group development as well as leadership models and approaches. Students will gain skills in working with groups and communities through the use of case studies, simulations, role playing and other experiential methods. Prerequisite: HUS 111 or SOC 111. Offered fall and spring.

HUS 285. RESEARCH METHODS IN HUMAN SERVICES **4 sh**

This course examines the methods used to conduct basic social science research. Emphasis is placed on the use of research in practice-related settings. The course acquaints students with a basic theoretical understanding of research, practical aspects of research and ethical and diversity considerations inherent in the proper implementation of research. Offered fall and spring.

HUS 311. POVERTY AND SOCIAL WELFARE POLICY **4 sh**

Poverty is a core issue which underlies many social and human problems in the United States. This course will examine the social welfare system in the United States and the

history and process of policy-making around this issue. Alternative approaches to understanding and resolving the problem of poverty will also be explored. Emphasis will be placed on the role of the Human Services worker in policy-making processes.

HUS 312. HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT 4 sh

This course explores theoretical and empirical knowledge of human behavior and the social environment as a foundation for Human Services delivery to individuals, families, groups and communities. Emphasis is placed on life transitions and on the diverse social conditions and contexts that may support or inhibit human development and functioning. Factors such as race and ethnicity, gender, sexual orientation, disability, socioeconomic status and rural/urban differences are explored as they impact human behavior and human development. The course focuses on the application of this knowledge through the use of case studies and other methods.

HUS 321. GROUP DYNAMICS AND LEADERSHIP 4 sh

Students explore group dynamics, group structure, leadership and the group worker role and are encouraged to examine and refine their own group communication and leadership skills. Prerequisite: HUS 213.

HUS 324. PERSPECTIVES AND ISSUES IN AGING 4 sh

This introduction to gerontology explores the biological, sociological and psychological aspects of aging and presents cultural, economic and political issues related to aging such as ageism, retirement, living environments, the social security and health care issues.

HUS 326. SPECIAL POPULATIONS IN HUMAN SERVICES 4 sh

This course explores specific populations of Human Services clients such as persons with disabilities, children at risk, persons with HIV/AIDS, persons with terminal illnesses, etc. Needs of the particular populations under study are explored as well as programs, services and innovations in service provision. Specific populations studied vary based on current trends and issues in the field.

HUS 331. PRINCIPLES OF COUNSELING 4 sh

This course focuses on the theories and methods used in counseling individuals. The course is designed for persons who will work in the helping professions and includes role playing, videotaping and working with case material. Prerequisite: HUS 212.

HUS 341. FAMILY COUNSELING 4 sh

This course focuses on family assessment and intervention using systems theory as the primary conceptual model and emphasizes the use of family counseling concepts to understand family dynamics and relationships. Students make extensive use of case material and role play to apply theory to practice. Prerequisite: HUS 212.

HUS 349. VIOLENCE IN FAMILIES 4 sh

This course explores various forms of violence in families including violence between spouses/partners, violence directed toward the elderly, violence between siblings and violence of parents toward children. Factors contributing to violence in families are discussed as well as methods of preventing and/or ameliorating patterns of violence within families. Students in this course develop an understanding of the reciprocal relationship between families and society by exploring how violence in families contributes toward societal violence as well as how family patterns are influenced by the values and attitudes of the larger society.

HUS 359. CRIMINAL JUSTICE 4 sh

The field of Criminal Justice is examined in terms of three interdependent subsystems: law enforcement, corrections and the courts. Both theoretical models and practical applications will be used to encourage a broad understanding of the criminal justice system as a whole.

HUS 361. SUBSTANCE ABUSE: ISSUES IN TREATMENT**4 sh**

Students become familiar with the contemporary theories and knowledge base concerning substance abuse. The course examines therapeutic issues involved in the treatment of substance-abusing persons and their families and reviews various types of treatment interventions. The course addresses innovative treatment modalities as well as the lack of sufficient and appropriate rehabilitative services to meet the needs of various special populations.

HUS 369. JUVENILE JUSTICE**4 sh**

This course examines the juvenile justice system, including a number of agencies which have jurisdiction over a juvenile from birth to the age of majority. System components included in this course are the social services, law enforcement, juvenile court and corrections. Ancillary and supportive services such as mental health, school systems, child advocacy groups and guardian ad litem programs are also explored.

HUS 371-3. TOPICS IN HUMAN SERVICES**4 sh**

Students examine special topics in Human Services, such as developmental disabilities, mental health issues and services, family violence, etc.

HUS 381. PRACTICUM IN HUMAN SERVICES**4 sh**

Students gain field experience in a Human Services organization observing and learning the roles, tasks, skills and methods of Human Services professionals in the assigned setting and becoming familiar with administrative processes in the organization (full-time for three weeks). Conferences with the supervising faculty member and the agency supervisor, assigned readings and various writing assignments provide further learning opportunities. Prerequisites: HUS 111, 2.1 GPA, status as a declared Human Services major or minor, and approval of application for practicum. Offered winter.

HUS 411. ADMINISTRATION OF HUMAN SERVICES AGENCIES**4 sh**

This overview of principles and techniques of leadership and management in Human Services agencies exposes students to planning, organizing, staffing and financing a project or an agency and working with a Board of Directors and the community. Senior Block Course. Prerequisites: HUS 111, 381. Offered fall and spring.

HUS 412. PROFESSIONAL COMMUNICATION**4 sh**

This course provides an in-depth study of interpersonal communication skills and writing skills essential to the Human Services worker, emphasizing the further development of written and oral communication skills. Special emphasis in this course is placed on cross-cultural communications within helping relationships. Senior Block Course. Prerequisites: HUS 111, 381. Offered fall and spring.

HUS 461. SENIOR SEMINAR**4 sh**

In this capstone course, students analyze their personal and professional development during their university experience and are required to research, write and present a scholarly paper. Prerequisites: senior majors, HUS 285. Offered fall and spring.

HUS 481. INTERNSHIP IN HUMAN SERVICES**8 sh**

Students participate in full-time, field-based experience in a Human Services agency for eight weeks, observing and practicing the roles, tasks and skills of Human Services professionals under the supervision of a faculty member and an agency supervisor. Conferences with both supervisors and assigned papers and readings enhance learning as the student connects theory and practice through work in the field. Prerequisites: 2.2 GPA, senior majors, HUS 381, 411 and 412. Offered fall and spring.

HUS 499. INDEPENDENT RESEARCH IN HUMAN SERVICES**1-8 sh**

Students engage in independent research projects related to the field of Human Services. Research is conducted under the supervision of Human Services faculty. Prerequisites: junior or senior status and departmental approval, HUS 285.

Independent Major

Coordinator: Professor Braye, Director of General Studies

Students with intellectual and professional interests which cannot be met by other major and minor programs may create an independent major. Independent majors are interdisciplinary in nature and are suitable for highly motivated students willing to assume exceptional responsibility for their own education. Students must have a GPA of at least 3.0 and no more than 66 completed semester hours when applying. Advice from the Director of General Studies may be helpful in designing an independent major. Details concerning final approval for an independent major may be obtained in the office of the Director of General Studies.

An Independent Major requires the following:

1. An Application for Independent Major, available from the Director of General Studies, must be completed before the student has earned 66 semester hours. This application also outlines the procedure to be followed for designing and declaring the Independent Major.
2. An interdisciplinary committee of three professors, including one designated as the principal advisor, must be assembled.
3. A curriculum must be designed with help from the committee. That curriculum must include the completion of the General Studies requirements.

An Independent Major includes:

- a minimum of 48 semester hours
- a minimum of 28 semester hours at the 300-400 level
- a capstone seminar
- a capstone interdisciplinary project
- a plan for assessing the completed major

The independent major courses must come from at least three departments, and no more than half may be from any one department. Upper-level courses taken to satisfy the requirements of an independent major will also satisfy the eight-hour advanced studies requirement when the independent major includes at least 12 hours of upper-level courses in three departments and at least two of the four areas listed under Studies in Arts and Sciences. Students completing an independent major which designates an advanced GST Seminar as the capstone seminar must take another GST Seminar to fulfill the General Studies requirements.

No more than four semester hours of independent study may be included. This will usually be used for completion of the capstone interdisciplinary project.

International Studies

Coordinator: Professor Digre

Program Faculty: Professors: Basirico, C. Brumbaugh, Roselle

Associate Professors: Chakrabarti, DeLoach, Romer

The International Studies major provides students with an interdisciplinary program through which they can gain a broad knowledge of international affairs as well as expertise on one of the world's regions. Study abroad experiences and foreign language study form integral parts of the program. Students, with the support of their advisors, have considerable freedom in designing their own program of study.

The major may form an attractive double major for students from a variety of disciplines, such as political science, history and foreign languages. It also might be profitably combined with a business minor. It should provide an educational background for those seeking international affairs careers in government, nongovernmental organizations (development/humanitarian), travel and business.

Students are required to include a study abroad experience in their programs. Students should choose an area relevant to their regional concentrations (see below). International (foreign) students at Elon satisfy this requirement due to the inherent cross-cultural character of their college education. Under specified provisions of the program, up to 16 credit hours of foreign study can be counted toward the major.

A major in International Studies requires 44 semester hours. These requirements are specified as follows:

Foundation Courses 8 sh

POL/INT 141	International Relations
HST/INT 221	World in the Twentieth Century

Foreign Language Study 8 sh

Students will take at least eight hours of study at any level in one modern foreign language. Students must also demonstrate foreign language proficiency by successful completion of a foreign language course at the 221 level (or its equivalent). Students should choose a language relevant to their regional concentrations.

Global Studies 12 sh

Students must take courses from at least two of the following five areas. Appropriate special topics courses, as approved by the program coordinator, may be included in the global studies category.

Politics and Economics

BUS 416	Global Marketing
BUS 430	International Business Management
ECO 201	Principles of Economics/INT (taught from an international perspective)
ECO 314	International Trade and Finance
POL 114	Model United Nations
POL 261	Comparative Politics
POL 342	U.S. Foreign Policy

- POL 343 International Law and Organizations
- POL 344 International Environmental Policy
- POL 345 International Terrorism
- POL 359 Political Communication

History and Geography

- GEO 131 The World's Regions
- HST 112 Europe and the Mediterranean World Since 1660
- GEO 310 Development and the Environment in Latin America, Africa and South Asia

Literature and Foreign Language

- ENG 231 World Literature
- ENG 331 Advanced World Literature
- Foreign languages 221, 321, 322 relevant to student's regional concentration

Society and Culture

- PSY 366 Psychology in Cultural Context
- REL 102 World Religions
- SOC 112 Introduction to Cultural Anthropology
- SOC 121 Cross Cultural Encounters
- SOC 322 Ethnography
- SOC 328 Culture and the Modern World

Study Abroad

Students who have study abroad course credit that cannot be counted under Foreign Language Study or regional concentration may count four semester hours under this category.

Regional Concentration

12 sh

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At least three courses taken on one geographic region. Courses should be chosen from at least two disciplines. Study abroad and special topics courses, as approved by the program coordinator, may be included under the regional concentration.

Approved courses for regional concentrations in Africa, the Asian/Pacific area, Europe and Latin America are listed below. In addition, special area concentrations designed by student and advisor may be approved by the program coordinator.

Africa

- ART 341 African Art
- ENG 338 The African Experience in Literature
- FRE 362 Francophone Cultures Outside France
- GEO 320 Africa's People and Environments
- HST 313 Modern Africa
- HST 314 A History of Southern Africa
- JCM 346 African Film
- POL 367 Politics of Africa

Asian/Pacific

- ENG 337 Asian Literature of Social Change
- ENS 310 Environmental Issues of Southeast Asia
- HST 320 China, Japan and the Pacific Century
- PHL 352 Eastern Philosophy

POL 363	Politics of Asia
POL 365	Politics of Eurasia
REL 353	Buddhism
REL 356	Hinduism

Europe

ENG 222	British Literature II
ENG 325	Romanticism
ENG 326	Realism and the Later 19th Century
ENG 356	The Novel: British Women Writers
FRE 332	Introduction to French Literature II
FRE 361	French Civilization
HST 316	The History of Imperial Russia to 1917
HST 317	Russia and the Soviet Union since 1917
HST 324	England within the British Empire
HST 326	History of Ireland
HST 327	History of Scotland
HST 335	Growth of Modern Europe
HST 336	Europe, 1914-1945
HST 337	Europe, 1945 to the Present
HST 338	Germany, Democracy and Hitler, 1914-1945
HST 339	A History of the Holocaust
PHL 433	Marx, Darwin and Freud
POL 364	Politics of Europe
POL 365	Politics of Eurasia
POL 428	Comparative Public Policy
SPN 333	Spanish Civilization

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Latin America

ENG 335	Latin American Literature and Culture
GEO 342	Gender and Environment in South America
HST 341	Modern Central American History
HST 350	History of Brazil
HST 351	History of Mexico
HST 353	Colonial Latin America
HST 354	Modern Latin America
POL 368	Latin American Politics
SOC 363	Latin American Social Movements
SOC 364	Inequality and Development in Latin America
SPN 334	Latin American Civilization

Senior Seminar

INT 461	Senior Seminar in International Studies	4 sh
TOTAL		44 sh

A minor in International Studies requires the following:

POL/INT 141	International Relations	4 sh
HST/INT 221	The World in the Twentieth Century	4 sh
Twelve semester hours based on the program of study for the		

international studies major

12 sh

Choose one of the following options:

- a. A Regional Concentration
- b. The Global Studies Field
- c. Foreign language study (eight semester hours) plus one elective selected from courses approved for the major

TOTAL**20 sh**

Students are strongly encouraged to include a study abroad experience.

INT 221. THE WORLD IN THE TWENTIETH CENTURY**4 sh**

(Cross-listed with HST 221. See HST 221 for description.)

INT 141. INTERNATIONAL RELATIONS**4 sh**

(Cross-listed with POL 141. See POL 141 for description.)

INT 461. SENIOR SEMINAR**4 sh**

The senior seminar is a capstone experience designed for majors. This course offers practical experience in researching, writing and presenting a senior thesis which builds on previous work in global studies and the regional concentration.

INT 481. INTERSHIP IN INTERNATIONAL STUDIES**2-4 sh**

Designed to provide students with opportunities to work in professional positions related to international affairs. Internships are intended to provide practical experience for future careers in government, nongovernmental organizations (development/humanitarian) and business. They may be arranged both in the United States and overseas.

Prerequisite: permission of program coordinator.

INT 491. INDEPENDENT STUDY**2-4 sh**

Open to junior or senior majors with permission of instructor.

INT 499. RESEARCH**1-4 sh****183**

Designed to allow students the opportunity to engage in an empirical or theoretical study in collaboration with a faculty member. Research projects may include reviewing relevant literature, developing a research design, data collection, analysis and presentation of findings. This may also include a presentation to the International Studies faculty and/or a SURF presentation. Prerequisite: permission of program coordinator.

Journalism and Communications

Dean, School of Communications: Professor Parsons

Chairs, Journalism and Communications: Associate Professors Book, Grady

Professor: Copeland

Associate Professors: Costello, M. Frontani, Gisclair, Guiniven, Hatcher, B. Lee, Padgett, Ward-Johnson

Assistant Professors: J. Anderson, Barnett, Burns, Bush, Eke, Fulkerson, Gaither, Gibson, W. Johnson, Landesberg, Makemson, T. Nelson, Skube

Lecturer: Cowen, Piland, Saltz

Instructors: Lashley, Scott

Adjuncts: Childers, Fox

The words communications and community come from the same linguistic root. A democratic community is built through freely and accurately telling citizens about the world they live in. As a result, communications is essential for people to stay in touch with each other and with government, business and other institutions in society.

The School of Communications offers two majors: Journalism and Communications (the latter with three emphases: Broadcast and New Media, Corporate Communications and Cinema).

The curriculum has several important themes: We live in a global world, we live in a digital world and students should reflect the highest ideals of their disciplines, such as serving the public good and promoting citizenship in a democracy. These themes are integrated into a curriculum that emphasizes writing, research and analytical thinking. While technology is important, the School's overarching emphasis is on the content of ideas and information.

Students complement in-class work with involvement in campus media including the campus newspaper *The Pendulum* and *Pendulum Online*, WSOE-FM and Elon Student Television (ESTV).

A broad university education prepares students to be knowledgeable people in a complicated world, and the School's curriculum provides the concepts and skills to succeed in a chosen career. About half of the School's graduates go directly into media and communications careers. The other half find that having communications expertise prepares them well for graduate school, law school, business opportunities and public service.

For all Journalism and Communications majors:

ACCREDITATION RULE. All students must complete at least 80 credit hours outside the School of Communications, with 65 or more of those hours in the liberal arts and sciences.

REQUIRED INTERNSHIP OR WORK EXPERIENCE. All students must complete a supervised internship or professional work experience in communications. Students seeking academic credit enroll in JCM 381 Communications Internship for one, two, three or four credit hours, based on 80 work-hours per credit hour. Or students can independently arrange, in accordance with School guidelines, their own noncredit professional work experience of at least 80 work-hours. The School verifies that the work experience was satisfactorily completed. (Credit earned through COE Co-op Work Experiences cannot count toward the major or toward the 80 hours required outside the School of Communications.)

DOUBLE MAJOR. To encourage students to develop a second area of academic depth, the School of Communications waives eight hours of JCM electives for any student completing a double major outside the School. For example, a student majoring in both Journalism and History would need to complete Journalism requirements and only 44 JCM hours instead of the normal 52 hours.

A major in Journalism requires the following courses:

JCM 200	Communications in a Global Society	4 sh
JCM 218	Media Writing	4 sh
JCM 220	Digital Media Convergence	4 sh
JCM 300	Reporting for the Public Good	4 sh
JCM 325	Editing and Design	4 sh
JCM 360	Media History	4 sh
JCM 364	Web Publishing	4 sh
JCM 381	Communications Internship Work Experience in Communications (noncredit)	1-4 sh or
JCM 395	Media Law and Ethics	4 sh
JCM 495	Great Ideas: Capstone in Communications	4 sh

At least one course selected from: 4 sh

- JCM 320 Photojournalism
- JCM 330 Broadcast Journalism
- JCM 334 Communications Research
- JCM 420 Design and Information Graphics
- JCM 425 Specialized Reporting

Choice of additional JCM courses to total at least 52 hours in the School of Communications (eight hours of JCM electives are waived for any student completing a double major outside the School)

TOTAL 52 sh

A major in Communications/Broadcast and New Media requires the following courses:

- JCM 200 Communications in a Global Society 4 sh
- JCM 218 Media Writing 4 sh
- JCM 220 Digital Media Convergence 4 sh
- JCM 302 Broadcasting in the Public Interest 4 sh
- JCM 322 Writing for Electronic Media 4 sh
- JCM 360 Media History 4 sh
- JCM 366 Television Production 4 sh
- JCM 381 Communications Internship 1-4 sh **or**
Work Experience in Communications (noncredit)
- JCM 395 Media Law and Ethics 4 sh
- JCM 495 Great Ideas: Capstone in Communications 4 sh

At least one course selected from: 4 sh

- JCM 330 Broadcast Journalism
- JCM 334 Communications Research
- JCM 340 Audio Production
- JCM 345 The Art of Film and Video Editing
- JCM 350 Broadcast Performance

Choice of additional JCM courses to total at least 52 hours in the School of Communications (eight hours of JCM electives are waived for any student completing a double major outside the School)

TOTAL 52 sh

A major in Communications/Corporate requires the following courses:

- JCM 200 Communications in a Global Society 4 sh
- JCM 218 Media Writing 4 sh
- JCM 220 Digital Media Convergence 4 sh
- JCM 304 Public Relations and Civic Responsibility 4 sh
- JCM 324 Strategic Writing and Presentation 4 sh
- JCM 334 Communications Research 4 sh
- JCM 381 Communications Internship 1-4 sh **or**
Work Experience in Communications (noncredit)
- JCM 395 Media Law and Ethics 4 sh
- JCM 404 Corporate Campaigns 4 sh

JCM 495 Great Ideas: Capstone in Communications 4 sh

At least one course selected from: 4 sh

JCM 327 Corporate Publishing

JCM 352 Corporate Video

JCM 364 Web Publishing

Choice of additional JCM courses to total at least 52 hours in the School of Communications (eight hours of JCM electives are waived for any student completing a double major outside the School)

In addition, at least one School of Business course selected from: 4 sh

ECO 201 Principles of Economics

BUS 303 Introduction to Management

BUS 304 Introduction to Marketing

ACC 201 Principles of Financial Accounting

FIN 303 Introduction to Finance

TOTAL 56 sh

A major in Communications/Cinema requires the following courses:

JCM 200 Communications in a Global Society 4 sh

JCM 218 Media Writing 4 sh

JCM 220 Digital Media Convergence 4 sh

JCM 306 Development and Social Influence of Cinema 4 sh

JCM 344 Screenwriting 4 sh

JCM 358 Film Production 4 sh

JCM 368 The Documentary 4 sh

JCM 381 Communications Internship 1-4 sh or
Work Experience in Communications (noncredit)

JCM 395 Media Law and Ethics 4 sh

JCM 495 Great Ideas: Capstone in Communications 4 sh

At least one course selected from: 4 sh

JCM 342 Film Theory and Analysis

JCM 345 The Art of Film and Video Editing

JCM 367 Film Aesthetics and Design

JCM 369 The Auteur Director

Choice of additional JCM courses to total at least 52 hours in the School of Communications (eight hours of JCM electives are waived for any student completing a double major outside the School)

TOTAL 52 sh

A minor in Communications requires the following courses:

JCM 200 Communications in a Global Society 4 sh

JCM 211 Professional Speaking and Rhetoric 4 sh

JCM 218 Media Writing 4 sh

Twelve hours of JCM elective 12 sh

TOTAL 24 sh

A minor in Cinema requires the following:

JCM 306 Development and Social Influence of Cinema 4 sh

Choose an additional 16 hours from the following: 16 sh

JCM 342 Film Theory and Analysis

JCM 346 African Film

JCM 349 The South in Film

JCM 369 The Auteur Director

JCM 371 Special Topics (in cinema)

or these JCM courses with prerequisites:

JCM 344 Screenwriting

JCM 345 The Art of Film and Video Editing

JCM 358 Film Production

JCM 367 Film Aesthetics and Design

JCM 368 The Documentary

or film courses offered in GST and other disciplines,
with prior approval of the dean's office.

TOTAL 20 sh

JCM 200. COMMUNICATIONS IN A GLOBAL SOCIETY 4 sh

Contemporary mass media play a vital role in society, both locally and globally. In this course, students study the importance of books, magazines, newspapers, recordings, movies, radio, television and the Internet, and the messages carried through news, public relations and advertising. The course emphasizes the relationship of media and democracy, theories related to media effects, the diversity of audiences and the global impact of communications.

JCM 210. PUBLIC SPEAKING 2 sh

Students learn principles for speaking in public settings, with significant in-class presentation and out-of-class topical research. The course focuses on the structure and effective delivery of ideas, use of language, supporting evidence, reasoning and emotional appeals, diction, pronunciation and nonverbal communication. Credit not given in the major for both JCM 210 and 211.

JCM 211. PROFESSIONAL SPEAKING AND RHETORIC 4 sh

Students learn principles for speaking in both public and organizational settings, with significant in-class presentation and out-of-class topical research and rhetorical analysis. The course focuses on the structure and effective delivery of ideas, use of language, supporting evidence, reasoning and emotional appeals, diction, pronunciation and non-verbal communication. Introduces ancient Greek and modern American rhetorical examples. Credit not given in the major for both JCM 210 and 211.

JCM 218. MEDIA WRITING 4 sh

Clear, logical writing is necessary to communicate effectively to an audience. This course focuses on background research, interviews, accuracy, attribution and styles of writing (print, broadcast, online, news releases). Superior grammar and language skills are required through passage of an exam, and Associated Press style is introduced.

JCM 220. DIGITAL MEDIA CONVERGENCE 4 sh

Convergence is the blending of text, sounds and images in the media environment to create new media. This course features units on visual literacy, photo editing, audio processing, video editing and Web publishing. Students learn theories of aural and visual aesthetics and produce individual Web pages. Prerequisite: C- or better in JCM 200.

JCM 235. INTERPERSONAL COMMUNICATION**2 sh**

Interpersonal relationships can be enhanced through the acquisition and development of communication skills. Topics include self-concept, perception, conversation skills and conflict resolution.

JCM 237. SMALL GROUP COMMUNICATIONS**2 sh**

The effectiveness of small-group communications can be enhanced through the acquisition and development of skills related to committee, team and work-group processes.

JCM 251. COMMUNICATIONS STUDIES ABROAD**4 sh**

Students who study abroad can earn credit for specialized study on a communications topic.

JCM 300. REPORTING FOR THE PUBLIC GOOD**4 sh**

Students focus on gathering and writing news that is accurate, logical and compelling. This course analyzes good writing by professional journalists and teaches the importance of the sound and sense of words. Students discuss concepts such as civic journalism, the watchdog function of the news media, ethical practice and journalism's role in serving the public good in a democracy. Prerequisite: C- or better in both JCM 200 and 218.

JCM 302. BROADCASTING IN THE PUBLIC INTEREST**4 sh**

Broadcasting was conceived and is regulated to serve the public interest. This course provides a philosophical, historical, technological and social overview of the broadcast and electronic media industries. It focuses on broadcast economics, management, audience analysis, programming, media effects, governmental policy and FCC regulation in the public interest. Prerequisite: C- or better in both JCM 200 and 218.

JCM 304. PUBLIC RELATIONS AND CIVIC RESPONSIBILITY**4 sh**

Public relations is the bridge between an organization and its many publics. This course emphasizes the theories, strategies and techniques in organizational environments (corporate, not-for-profit, associations, agencies, government) and studies historical roots, formation of public opinion, crisis management, marketing and the ethical requirements to be a responsible corporate citizen. Prerequisite: C- or better in both JCM 200 and 218.

JCM 306. DEVELOPMENT AND SOCIAL INFLUENCE OF CINEMA**4 sh**

The cinema has a rich history as an art form, from silent films to today. This course explores the social influence of cinema, both American and international. Students will analyze cinema as a business enterprise and entertainment medium as well as an art form.

JCM 310. ADVERTISING: PRINCIPLES AND PRACTICE**4 sh**

Advertising is a creative communications process between messenger and consumer. This course studies the research foundation and the techniques used in creating advertising for print, electronic and online media. Topics include history, ethics, social dynamics, economic implications for society and the global spread of advertising.

JCM 311. INTERNATIONAL COMMUNICATIONS**4 sh**

Media systems differ substantially in the Americas, Europe, Asia, Africa and the rest of the world. In this course, students examine the media systems of many countries, stressing the chief problems of communications across cultural, economic, sociological and political barriers. Prerequisite: junior standing.

JCM 315. MEDIA AND CULTURE**4 sh**

The media shape American culture; in turn, culture shapes the media. This course considers media as a ritual of every-day culture and maps the uneasy and parallel developments of consumer culture and democratic society.

JCM 316. POLITICS IN MASS MEDIA**4 sh**

The media have a tremendous effect on the American political system in terms of news coverage, candidate visibility, political messages and the creation of public opinion. This course traces the evolution of media impact to the present day.

JCM 317. RELIGION AND MEDIA**4 sh**

Religion and media are two powerful influences in society. This course analyzes how they intersect through news coverage of religious issues and the presentation of religious themes in the entertainment media. Topics include the history of religious communication, covering religion as news, religion's use of television and the Internet, religious messages in movies and media portrayals of religious people and traditions.

Prerequisite: REL 121 or 134.

JCM 318. ORGANIZATIONAL COMMUNICATIONS**4 sh**

Every organization has its own internal patterns and practices of communication. This course addresses the theories and workplace issues related to culture, teams, interpersonal relations and organizational strategy. Students analyze global, technological and ethical dimensions of communication in organizations.

JCM 320. PHOTOJOURNALISM**4 sh**

Photojournalism is the visual reporting of news. Students produce digital photojournalism by translating ideas and newsworthy information into visual form. The course emphasizes composition, lighting, storytelling and editing, along with the history of photojournalism and its legal and ethical frameworks. Prerequisite: JCM 220.

JCM 322. WRITING FOR ELECTRONIC MEDIA**4 sh**

Writing for radio, television and other electronic media has its own style, form and content approaches. Students focus on writing news, commercials, public service announcements and other copy for the ear. This course teaches the importance of the sound and sense of words, and students discuss contemporary issues. Prerequisite: C- or better in both JCM 200 and 218.

JCM 324. STRATEGIC WRITING AND PRESENTATION**4 sh**

This course emphasizes the preparation and delivery of messages applicable to public relations, advertising and media relations. Informative and persuasive methods include news releases, backgrounders, speech writing, employee publications, annual reports, news conferences, multimedia, public service announcements and oral presentations to a variety of audiences. Prerequisite: JCM 304.

189**JCM 325. EDITING AND DESIGN****4 sh**

Precision in word usage and style and an aesthetic sense of design are valuable in publications. Students practice crafting content, editing copy, writing headlines, using photos and graphics, writing captions and designing pages. Prerequisite: C- or better in both JCM 200 and 218.

JCM 326. FEATURE WRITING**4 sh**

Students in this course study writing styles and write feature articles for newspapers and magazines. The course applies techniques of fiction such as narrative, characterization, dialogue and scenes to nonfiction writing. Prerequisite: C- or better in JCM 218.

JCM 327. CORPORATE PUBLISHING**4 sh**

Print and Web media (publications, public relations, advertising and the Internet) are used to communicate with internal and external publics. This course emphasizes effective visual design and publishing for corporate purposes. Prerequisite: JCM 220.

JCM 330. BROADCAST JOURNALISM**4 sh**

Students report, write, edit and produce local news, commentary and sports coverage. They also analyze good broadcast journalism, audience research, effects research and production. Prerequisite: JCM 220 and either 300 or 322.

JCM 334. COMMUNICATIONS RESEARCH**4 sh**

Theoretical and methodological knowledge is necessary to properly conduct and apply mass communication research. This course explores public opinion polling, marketing research and qualitative methods, and highlights surveys, content analysis, focus groups and audience analysis. Prerequisite: JCM 300, 302, 304 or 306.

JCM 338. MAGAZINE PUBLISHING**4 sh**

This course examines the magazine publishing industry from its origins to today. Students explore industry trends toward specialization and magazine publishing processes including concept, planning, writing, editing, advertising, production, promotion and distribution of a finished product.

JCM 340. AUDIO PRODUCTION**4 sh**

Sound is an important element in media communications. This course analyzes production techniques applicable in radio, television, cinema and online (editing, music and sound effects, signal processing and multi-channel production). Students learn studio operation, producing, writing and performing. Prerequisite: JCM 220.

JCM 342. FILM THEORY AND ANALYSIS**4 sh**

This course surveys classical and contemporary film theory. Students study critical approaches to the study of film including formalism, realism and expressionism. This is an intensive writing course in film theory and criticism, including film reviews.

JCM 344. SCREENWRITING**4 sh**

Writing for the cinema requires plot development, narrative, characterization, dialogue and scenes. This course explores film formats such as drama, comedy and documentary. Students write scripts of varied lengths. Prerequisite: C- or better in both JCM 200 and 218.

JCM 345. THE ART OF FILM AND VIDEO EDITING**4 sh**

Students study film and video editing with an emphasis on the art of montage. The course examines the historical and theoretical evolution of editing, and students complete projects using computer-based editing systems. Prerequisite: JCM 220.

JCM 346. AFRICAN FILM**4 sh**

Students examine films produced in Africa and study the "language" created by African cinema. The course concentrates on the history of the continent and the problems of tradition versus modernity as expressed in African film.

JCM 349. THE SOUTH IN FILM**4 sh**

The American South has been a focal point of film through the years. Each work is studied from two viewpoints: the time of the film (historical setting) and the time of the filming (historical context). The course shows how the South and its historical stereotypes have been portrayed to the world and to Southerners themselves.

JCM 350. BROADCAST PERFORMANCE**4 sh**

This course emphasizes effective presentation of ideas and information on radio and television. Students focus on vocal and visual presentation, voice and diction, pronunciation, appearance, gestures and movement. Prerequisite: JCM 220.

JCM 352. CORPORATE VIDEO**4 sh**

Broadcast media are used to communicate with internal and external publics. This course emphasizes achieving an organization's goals through informing, persuading and entertaining. Students focus on research, writing, and both studio and remote video production. Prerequisite: JCM 220.

JCM 358. FILM PRODUCTION**4 sh**

Students in this course explore concepts of film-style cinematography and editing. Students are responsible for writing, shooting and editing their own productions using video and computer-based editing systems. Prerequisite: JCM 220.

JCM 360. MEDIA HISTORY**4 sh**

This course examines the development, growth and impact of media in America. It studies the major trends, important personalities, technological advancements, diversity of audiences and societal impact ranging from colonial newspapers in the 1600s to today's print and electronic media.

JCM 364. WEB PUBLISHING**4 sh**

In this advanced study of online publishing, students analyze the effective use of the Internet as a publication tool and its impact on society. Students experiment with diverse ways of using media such as text, graphics, sound and video to effectively transmit information and data and to interact with users. Prerequisite: JCM 220.

JCM 365. INTERACTIVE AND NEW MEDIA**4 sh**

Students analyze the history and structure of interactive and newer media forms (such as DVD, CD-ROM and the Internet) and explore their potential uses. This course experiments with interactive presentations and emerging media, using a media theory framework and models drawn from the fields of cognition and graphic design. Prerequisite: JCM 220.

JCM 366. TELEVISION PRODUCTION**4 sh**

Students explore the principles and techniques in television broadcasting and other video media. Studio and field assignments emphasize the aesthetics of teleproduction and the centrality of effective audio. Students research, write and produce news, commercials and public service announcements. Prerequisite: JCM 220.

JCM 367. FILM AESTHETICS AND DESIGN**4 sh**

This course provides a conceptual framework for designing and creating cinema and television programs. It focuses on applied visual aesthetics including production design, camera composition, color, motion, editing, sound effects and music. The course highlights the relationship between story content and artistic form. Prerequisite: JCM 220 and 306.

JCM 368. THE DOCUMENTARY**4 sh**

Students trace the origins of the documentary and its status today, ranging from news documentaries to nature and travel films to major artistic documentaries. Students produce documentary projects outside of class. Prerequisite: JCM 220 and 306.

JCM 369. THE AUTEUR DIRECTOR**4 sh**

The auteur theory proposes that the greatest movies are dominated by the personal vision of one person, the director. This course examines the career of a specific director, emphasizing that director's auteur characteristics. Students view selected films from the director's filmography and write about particular auteur characteristics. Prerequisite: JCM 306.

JCM 371. SEMINAR: SPECIAL TOPICS**1-4 sh**

Recent examples include Media Management, Global Press Freedom and Ethics, Philanthropy and Corporate Communications, Magazine Writing, The Pulitzer Prizes and Advertising Copywriting.

JCM 380. MEDIA WORKSHOP**1 sh**

An on-campus practicum with student media, featuring weekly instruction from a faculty advisor. Prerequisite: approval of dean's office. Maximum of 4 credit hours applied toward major.

JCM 381. COMMUNICATIONS INTERNSHIP**1-4 sh**

An off-campus, professionally supervised internship in journalism, broadcast and new media, corporate communications or cinema. Students secure an internship with guidance from the School's internship office and enroll for one, two, three or four credit hours, based on at least 80 work-hours per credit hour. An internship involves creation

of a student portfolio, reflection assignments and supervisor evaluations. Maximum of four hours of internship credit may apply toward the major. Prerequisite: approval of School's internship director.

JCM 395. MEDIA LAW AND ETHICS

4 sh

The First Amendment is the philosophical foundation for freedom of speech and press in America. This course distinguishes between forms of communication that have constitutional protection and those with limitations (libel, privacy, copyright, censorship, commercial speech, broadcast licensing, access to information). Students explore the foundations of moral reasoning and apply ethical responsibilities to communications cases. Prerequisite: junior status.

JCM 404. CORPORATE CAMPAIGNS

4 sh

This course provides for the application of public relations strategies and techniques through the creation of a communications campaign for real clients. Students engage in audience analysis, budget preparation and development of a strategic plan for corporate, nonprofit, association and/or government clients. Prerequisite: JCM 304, 324 and 334.

JCM 420. DESIGN AND INFORMATION GRAPHICS

4 sh

In this advanced course, students focus on effective design, information graphics and photo editing for newspapers, magazines and other publications. Students apply that knowledge to design projects. The course analyzes use of type, images and color. Prerequisite: JCM 325 or 327.

JCM 425. SPECIALIZED REPORTING

4 sh

Advanced students investigate the techniques used to research and report complex political, social and economic issues related to specialized areas of news coverage such as business writing, sports writing and opinion writing. Strategies are developed for individual reporting projects, and students explore story topics, sources and pitfalls. Prerequisite: JCM 300.

JCM 430. TELEVISION NEWS REPORTING

4 sh

In this advanced study of electronic news gathering, students analyze current examples of news and public affairs programming as well as research, write, edit and produce television news packages. Prerequisite: JCM 330.

JCM 491. INDEPENDENT STUDY

1-4 sh

Students work with a faculty member on a rigorous project outside the domain of traditional coursework. Prerequisite: approval of dean's office. Maximum of four credit hours applied toward major.

JCM 495. GREAT IDEAS: CAPSTONE IN COMMUNICATIONS

4 sh

Students examine the importance of free expression in a democracy and other great ideas, and trends such as media convergence, global communications, media consolidation and the impact of new technologies. The course assesses student learning of professional values and competencies, and students create a capstone project. Prerequisite: senior status. Students must pass this course with a grade of C- or better.

JCM 499. RESEARCH

1-4 sh

Students create an original research project guided by a faculty mentor. A research proposal form completed by the student and faculty mentor is required for registration. Prerequisite: approval of the dean's office.

Latin American Studies

Coordinator: Professor C. Brumbaugh

The Latin American Studies minor offers an opportunity to study one of the most diverse and fascinating regions of the world. It enables students to supplement their major with coursework in two or more disciplines that explore the ways in which Latin Americans have expressed their culture and identity through language, literature and the arts. Courses in the minor investigate the collective aspirations of Latin Americans through their social and political behavior, cultural priorities and responses to community, national and international issues as well as the physical environment. With an area two and one half times larger than the United States and a population nearly twice that of the United States, Latin America is a region of growing significance. Hemispheric relationships are expanding in terms of trade, immigration and cultural expression. The minor addresses Latin America as an important region of intrinsic interest, allowing students pursuing any major to expand their understanding of the history, social dynamics and cultural diversity of the area. The minor is beneficial to students interested in careers in teaching, law, health care, business, communications, the arts, nonprofits, government and other fields, and for students wishing to pursue graduate degrees with emphasis on area studies or foreign language.

A minor in Latin American Studies requires 20 semester hours selected from the following list of courses and others approved by the program coordinator. No more than 12 hours may be chosen from any one discipline. Up to eight hours of study abroad courses that emphasize Latin American subject matter may count for the minor, as approved by the program coordinator.

Language Proficiency

Intermediate proficiency in the Spanish language is a concurrent requirement for the minor. This requires students to either pass the Spanish placement exam at the SPN 122 level, pass SPN 122 for an additional four hours, or pass SPN 121 and SPN 122 for an additional eight hours beyond the 20 hours required for the minor. Students using these courses to meet the concurrent requirement are advised to take them as early as possible.

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ENG 335	Latin American Literature and Culture	4 sh
GEO 342	Gender and Environment in South America	4 sh
HST 341	Modern Central American History	4 sh
HST 350	History of Brazil	2 sh
HST 351	History of Mexico	2 sh
HST 353	Colonial Latin America	4 sh
HST 354	Modern Latin America	4 sh
POL 368	Latin American Politics	4 sh
SOC 363	Latin American Social Movements	4 sh
SOC 364	Inequality and Development in Latin America	4 sh
SPN 334	Latin American Civilization	4 sh
SPN 335	Latinos in the U.S.	4 sh
LAS 491	Independent Study	4 sh
LAS 481	Internship in Latin American Studies	4 sh
LAS 499	Research	1-4 sh

TOTAL
20 sh

Leisure and Sport Management

Chair, Department of Leisure and Sport Management: Associate Professor Drummond
Associate Professor: Walker
Assistant Professor: Orejan

The Leisure and Sport Management major prepares students to plan, manage and sustain effective leisure and sport experiences in private, public and commercial settings. Students develop a "service" sensitivity and skills applicable to leisure and sport settings.

A major in Leisure and Sport Management requires the following courses:

LSM 212	Introduction to Leisure and Sport Management	4 sh
LSM 226	Facility Planning and Maintenance Management	4 sh
LSM 227	Programming and Event Management	4 sh
LSM 332	Research Methods in Leisure and Sport Management	4 sh
LSM 351	Leisure and Sport Marketing	4 sh
LSM 405	Legal Aspects of Leisure and Sport Management	4 sh
LSM 412	Financial Operations of Leisure and Sport	4 sh
LSM 426	Governance and Policy Development	4 sh
LSM 461	Senior Seminar	4 sh
LSM 481	Internship in Leisure and Sport Management	6 sh
ACC 201	Principles of Financial Accounting	4 sh
BUS 202	Business Communications	4 sh
BUS 303	Introduction to Managing	4 sh
Total		54 sh

A minor in Leisure and Sport Management requires the following courses:

LSM 212	Introduction to Leisure and Sport Management	4 sh
LSM 226	Facility Planning and Maintenance Management	4 sh
LSM 227	Programming and Event Management	4 sh
Eight semester hours chosen from the following:		8 sh
LSM 351	Leisure and Sport Marketing	
LSM 405	Legal Aspects of Leisure and Sport Management	
LSM 412	Financial Operations of Leisure and Sport	
LSM 426	Governance and Policy Development	
Total		20 sh

LSM 212. INTRODUCTION TO LEISURE AND SPORT MANAGEMENT **4 sh**

This course is an introduction to leisure and sport management fundamentals emphasizing the role and relevance of each to society. Students study terminology, philosophies and evolution of leisure and sport, internal and external recreation motivation factors, leisure concepts and relevant contemporary issues.

LSM 226. FACILITY PLANNING AND MAINTENANCE MANAGEMENT **4 sh**

This study focuses on area and facility planning and maintenance principles in leisure settings, including developing a master plan and analyzing the relationship of maintenance and planning to risk management, visitor control, vandalism and law enforcement.

LSM 227. PROGRAMMING AND EVENT MANAGEMENT 4 sh

Students study the principles of organization, planning and group dynamics as they apply to leisure events. They also learn to identify, develop and apply component skills such as needs assessment, inventory and evaluation. Students will plan and administer an actual event.

LSM 332. RESEARCH METHODS IN LEISURE AND SPORT MANAGEMENT 4 sh

An examination of research methods in leisure and sport settings, including research techniques, defining research problems, hypotheses development, reviewing and interpreting literature, organizing, analyzing and presenting data. Prerequisite: LSM 212.

LSM 351. LEISURE AND SPORT MARKETING 4 sh

This course examines the theory and pragmatic aspects of service marketing, promotions and public relations and their application to the leisure and sport industry. Prerequisite: LSM 212.

LSM 405. LEGAL ASPECTS OF LEISURE AND SPORT MANAGEMENT 4 sh

The United States is the most litigious nation in the world. Consequently, as a major sector of the economy, the leisure and sport industry managers must be aware of component legal issues in order to operate safely and efficiently. This course will allow students to examine pertinent legal issues such as contracts, personal and product liability, risk management, gender discrimination, human resources and drug testing. Prerequisite: LSM 212.

LSM 412. FINANCIAL OPERATIONS OF LEISURE AND SPORT 4 sh

This course presents an overview of financial and economic issues within the leisure and sport industry. Topics include economic impact analysis, public and private sector resources, facility funding, sponsorship, fundraising for profit and nonprofit agencies, commercial and public recreation, collegiate and professional sport organizations. Prerequisite: LSM 212.

LSM 426. GOVERNANCE AND POLICY DEVELOPMENT 4 sh

An analysis of policy development within public and private recreation settings, professional sport, interscholastic sport, and national and international leisure and sport organizations. This course will include analyses of the implications of cultural and social issues in these varied settings. Prerequisites: senior standing or permission of instructor; LSM 212.

LSM 461. SENIOR SEMINAR 4 sh

Students eclectically review academic work to date and demonstrate ability to analyze contemporary issues/problems in leisure and sport management. Prerequisites: LSM 212 and senior standing.

LSM 481. INTERNSHIP IN LEISURE AND SPORT MANAGEMENT 6 sh

This course provides students with 400 supervised hours (agency and university) of experiential exposure in the area of their vocational interest. Students demonstrate knowledge, skills, abilities and competencies in the areas of organization and administration, leadership techniques, program planning and implementation, fiscal administration, personnel development and supervision, public and political relations and area/facility planning, development and maintenance. Students will submit the following to the academic supervisor: learning objectives, weekly reports and an agency survey showing comprehensive knowledge of the agency. Arrangements with a professor must be made prior to the semester in which the internship is taken. Prerequisite: for LSM majors, must have junior standing and 2.0 GPA in major. Offered fall, spring and summer.

LSM 491. INDEPENDENT STUDY 1-4 sh**LSM 499. RESEARCH IN LEISURE AND SPORT MANAGEMENT 1-4 sh**

Mathematics

Chair, Department of Mathematics: Associate Professor Allis

Professors: J. Clark, Francis, Haworth

Associate Professors: T. Lee, Plumblee, Russell

Assistant Professors: J. Beuerle, Coles, Delpish, Mir

Lecturer: L. Beuerle, Mays

Adjuncts: Shreffler, Travis, Walton, Whiffen

The Department of Mathematics offers programs leading to the A.B. or B.S. degree with a major in Mathematics. A minor in mathematics is available for students majoring in another discipline.

Mathematics is an excellent major for the student whose immediate objective is to acquire a good liberal arts education. Students who complete a bachelor's degree in mathematics may choose several postgraduate alternatives, including work in a variety of industries, an advanced degree in either mathematics or another closely related field (computer science, biometry, information science, statistics or operations research) or law school.

Students who combine mathematics with another discipline that uses mathematics can also pursue graduate work in the second discipline. These areas include biology, chemistry, economics, medicine, physics and many of the social science disciplines. In addition, mathematics majors may teach at the secondary level or work in business, industry or government positions which emphasize analytical reasoning.

The Bachelor of Arts and the Bachelor of Science degrees in Mathematics require the following core courses:

MTH 121	Calculus and Analytic Geometry I	4 sh
MTH 221	Calculus and Analytic Geometry II	4 sh
MTH 231	Mathematical Reasoning	4 sh
MTH 311	Linear Algebra	4 sh
MTH 312	Abstract Algebra	4 sh
MTH 321	Calculus and Analytic Geometry III	4 sh
MTH 425	Analysis	4 sh
MTH 361	Seminar I	2 sh
MTH 461	Seminar II	2 sh
TOTAL		32 sh

A Bachelor of Arts degree in Mathematics requires the following courses:

Core courses in Mathematics	32 sh
One course selected from:	4 sh
MTH 331 Modern Geometry	
MTH 341 Probability and Statistics	
MTH 351 Theory of Computation	
MTH 415 Numerical Analysis	
MTH 421 Differential Equations	
MTH elective(s) at the 300-400 level (excluding MTH 481)	4 sh
CSC 130 Computational Programming	4 sh
PHY 113 Physics with Calculus I	4 sh
TOTAL	48 sh

A Bachelor of Science degree in Mathematics requires the following courses:

Core courses in Mathematics	32 sh
One course selected from:	4 sh
MTH 331 Modern Geometry	
MTH 341 Probability and Statistics	
MTH 351 Theory of Computation	
MTH 415 Numerical Analysis	
MTH 421 Differential Equations	
MTH elective(s) at the 300–400 level (excluding MTH 481)	4 sh
CSC 130 Computational Programming	4 sh
One CSC course numbered above 130	4 sh
PHY 113 Physics with Calculus I	4 sh
PHY 114 Physics with Calculus II	4 sh
TOTAL	56 sh

Secondary Teaching Licensure in Mathematics

Students planning to teach mathematics at the secondary level must complete a Bachelor of Arts or Bachelor of Science degree in Mathematics and include MTH 331 and 341 among the mathematics requirements, in addition to the required professional education courses. (See professional education course requirements listed under Education.)

A Bachelor of Science degree in Engineering Mathematics: see requirements listed under Engineering.

A minor in Mathematics requires the following courses:

MTH 121 Calculus and Analytic Geometry I	4 sh
MTH 221 Calculus II	4 sh
MTH 231 Mathematical Reasoning	4 sh
MTH 311 Linear Algebra	4 sh
Elective(s) from MTH 112 or Mathematics courses numbered 200 or above (excluding MTH 210 and MTH 481) Computer Science courses, or Economics 203	4 sh
TOTAL	20 sh

A student may exempt MTH 112, 115 and/or 121 by demonstrating proficiency.

Once a student has received credit, including transfer credit for a course, credit may not be received for any course with material that is equivalent to it or is a prerequisite for it, without permission of the mathematics department.

MTH 100. ALGEBRAIC CONCEPTS

4 sh

This course is designed to develop and maintain proficiency in basic algebra skills and to prepare students for future mathematics work in college courses. Topics include exponents, factoring, equation solving, rational expressions, radicals, quadratic equations and graphs of functions. A specific graphing calculator is required. This course must be completed with “C-” or better before taking any other mathematics course. Elective credit only. No credit will be given to students having passed MTH 115 or higher. Offered fall and spring.

MTH 112. GENERAL STATISTICS**4 sh**

This course provides an introduction to modern statistics. Students will analyze and critically interpret real world data using information such as the U.S. Census, election results and health issues. This course emphasizes communication, use of technology and collaborative learning. Topics covered include descriptive statistics, basic probability, inferential statistics and regression analysis. A specific graphing calculator is required. Prerequisite: MTH 100 or placement exemption. Offered fall and spring.

MTH 115. TRIGONOMETRY**4 sh**

This course provides a study of algebraic, trigonometric, exponential and logarithmic functions and their behavior. Constructing, analyzing and describing mathematical models of everyday phenomena is emphasized. A specific graphing calculator is required. Prerequisite: MTH 100 or placement exemption. Offered fall of even years.

MTH 116. APPLIED CALCULUS**4 sh**

This introduction to linear systems and differential calculus emphasizes applications to problem solving in business and economics. Students gain enhanced ability to analyze a problem mathematically and study the following topics: functions, limits, derivatives and applications of derivatives. No credit for students with MTH 121 or its exemption. A specific graphing calculator is required. Prerequisite: MTH 100 or placement exemption. Offered fall, winter and spring.

MTH 121. CALCULUS AND ANALYTIC GEOMETRY I**4 sh**

Students are introduced to analytic geometry, functions, limits and continuity, differentiation of algebraic functions with applications, the definite integral and the fundamental theorem of integral calculus. A specific graphing calculator is required. Prerequisite: MTH 115 or placement exemption. Offered fall and spring.

MTH 206. DISCRETE STRUCTURES**4 sh**

This course offers an intensive introduction to discrete mathematics as it is used in computing sciences. Topics include functions, relations, propositional and predicate logic, simple circuit logic, proof techniques and elementary and discrete probability. Prerequisite: MTH 116 or MTH 121. Offered fall.

MTH 210. MATHEMATICS FOR ELEMENTARY AND MIDDLE GRADES TEACHERS**4 sh**

This course is open only to students majoring in elementary education, special education or middle grades education with a concentration in mathematics. Topics include problem solving, numeration systems, set theory, rational and irrational numbers (concepts, operations, properties and algorithms), geometry, measurement and selected topics in probability and statistics. Prerequisite: General Studies mathematics requirement. Offered fall, winter and spring.

MTH 221. CALCULUS AND ANALYTIC GEOMETRY II**4 sh**

Students explore applications of the definite integral, differentiation and integration of transcendental functions, techniques of integration, indeterminate forms, improper integrals, infinite sequences and series. A specific graphing calculator is required. Prerequisite: MTH 121. Offered fall and spring.

MTH 231. MATHEMATICAL REASONING**4 sh**

This study of proof techniques and reasoning skills introduces the student to another side of mathematics, namely proof. The student's preceding courses (e.g., precalculus and calculus) usually focus on calculations. Topics include mathematical logic, sets, mathematical induction, combinatorics, relations and countability arguments. Prerequisite: MTH 121. Offered fall and spring.

MTH 311. LINEAR ALGEBRA**4 sh**

This introductory course in linear algebra includes systems of linear equations, matrices, determinants, vector spaces, eigenvalues, eigenvectors, orthogonality and linear transfor-

mations. Proofs of the major theorems and a variety of applications are also covered. Prerequisites: MTH 221, 231. Offered fall and spring.

MTH 312. ABSTRACT ALGEBRA 4 sh

Students who have had an introduction to the rules of logic and proof construction are introduced to abstract algebra, including topics such as functions, groups (cyclic, permutation, normal and quotient), properties of groups, rings, fields, homomorphisms, isomorphisms, real and complex numbers and polynomials. Prerequisites: MTH 231, 311. Offered spring.

MTH 321. CALCULUS AND ANALYTIC GEOMETRY III 4 sh

This course provides a study of advanced techniques of differential and integral calculus, including plane curves and polar coordinates, three-dimensional analytic geometry including vectors, differentiation and integration of multivariable functions and applications. A specific graphing calculator is required. Prerequisite: MTH 221.

MTH 331. MODERN GEOMETRY 4 sh

This rigorous treatment of axiomatic foundations of Euclidean geometry through Hilbert's axioms includes the role and independence of the parallel postulate (revealed through models and neutral geometry), straightedge and compass constructions, historical and philosophical implications of the discovery of non-Euclidean geometry with an introduction to both hyperbolic and elliptic geometry. Prerequisite: MTH 231. Offered fall of odd-numbered years.

MTH 341. PROBABILITY THEORY AND STATISTICS 4 sh

Topics include axiomatic probability, counting principles, discrete and continuous random variables and their distributions, sampling distributions, central limit theorem, confidence intervals and hypothesis testing. Prerequisites: MTH 221 and 231. Offered fall of even-numbered years.

MTH 351. THEORY OF COMPUTATION 4 sh

(Cross-listed with CSC 351. See CSC 351 for description.)

MTH 361. SEMINAR I 2 sh 199

This course prepares mathematics majors for Seminar II, the capstone seminar, by instruction and experience in library research and formal oral presentations on advanced mathematical topics selected by the instructor and students. Prerequisite: junior/senior standing or permission of the mathematics department. Offered spring.

MTH 371. SPECIAL TOPICS 2-4 sh

Topics are selected to meet the needs and interests of students.

MTH 415. NUMERICAL ANALYSIS 4 sh

This introduction to numerical analysis includes floating point arithmetic, interpolation, approximation, numerical integration and differentiation, nonlinear equations and linear systems of equations. Prerequisites: CSC 130; MTH 311, 321; or permission of the instructor. (Cross-listed with CSC 415.) Offered spring of even-numbered years.

MTH 421. DIFFERENTIAL EQUATIONS 4 sh

Topics in this in-depth study of methods of solution and applications of ordinary differential equations include first-order differential equations (linear and nonlinear), linear differential equations of higher order, mathematical models using second-order equations, systems of differential equations and numerical techniques including Euler, Improved Euler and the Runge-Kutta method. Computers or programmable calculators may be used. Prerequisite: MTH 321. Offered spring.

MTH 425. ANALYSIS 4 sh

This course provides an in-depth study of topics introduced in the three-course calculus sequence, including sequences and series, continuity and differentiation of functions of a single variable, the Riemann integral and the fundamental theorem of calculus. Prerequisites: MTH 312 and 321. Offered fall.

MTH 461. SEMINAR II**2 sh**

In this capstone experience for senior mathematics majors, students conduct extensive research on a mathematical topic and formally present their work in writing and orally. Course requirements include a satisfactory score on the ETS major field achievement test. Prerequisites: MTH 361 and junior/senior standing or permission of the department. Offered fall.

MTH 471. SPECIAL TOPICS**2-4 sh**

Topics are selected to meet the needs and interests of the students.

MTH 481. INTERNSHIP IN MATHEMATICS**1-4 sh**

The internship provides advanced work experiences in some aspect of mathematical sciences and is offered on an individual basis when suitable opportunities can be arranged. Prerequisite: permission of the department.

MTH 491. INDEPENDENT STUDY**1-4 sh**

Prerequisite: permission of the department. May be repeated with different topics for up to a total of eight semester hours.

Medical Technology

Chair, Department of Biology and Allied Health: Associate Professor Kingston

Program Director: J. Simmons

Medical Director: Garvin

University Program Director: H. House

See Biology.

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Military Science

Elon University, in cooperative agreement with North Carolina A&T State University, offers an Army Reserve Officers' Training Corps (ROTC) program and Air Force ROTC program. The Air Force ROTC program is offered totally on the North Carolina A&T State University campus. Students must register for the required aerospace science courses through the Greater Greensboro Consortium program in the Elon University Registrar's Office.

The Army Reserve Officers' Training Corps program provides a viable elective program for both male and female students. The program is divided into a basic course and an advanced course. These courses are normally completed during a four-year period. However, it is possible for veterans and other students who elect to undergo special training to complete the program in two years.

PROGRAMS OF INSTRUCTION

Programs of instruction for the Army ROTC include a four-year program and a two-year program. The four-year program consists of a two-year basic course, a two-year advanced course and the advanced ROTC Summer Camp. The two-year program encompasses a basic ROTC Summer Camp, a two-year advanced course and the advanced ROTC Summer Camp.

BASIC COURSE

The basic course is normally taken during the freshman and sophomore years. The purpose of this instruction is to introduce the student to basic military subjects: branches of the

Army; familiarization with basic weapons, equipment and techniques; military organization and functions; and the techniques of leadership and command. It is from the students who successfully complete this instruction that the best qualified are selected for the advanced course which leads to an officer's commission.

Credit for the basic course can be obtained by successfully completing the following courses:

MSC 111	Introduction of Citizen/Soldier	1 sh
MSC 112	Introduction to U.S. Military Forces	1 sh
MSC 141, 142	Leadership Laboratory	1 sh/ea
MSC 211	Development of Professional Military Skills I	1 sh
MSC 212	Development of Professional Military Skills II	1 sh
MSC 241, 242	Leadership Laboratory	1 sh/ea
TOTAL		8 sh

Successful completion of Military Science 251 or prior service in the Armed Forces can be used to obtain appropriate credit for the basic course.

ADVANCED COURSE

Students who receive appropriate credit for the basic course and meet eligibility standards are admitted to the advanced course on a best-qualified basis. Successful completion of the advanced course qualifies the student for a commission as a Second Lieutenant in one of the branches of the United States Army, Army Reserves or Army National Guard. The following courses are required for completion of the advanced course:

MSC 311	Leadership Training	2 sh
MSC 312	Introduction to Military Team Theory	2 sh
MSC 341, 342	Leadership Laboratory	1 sh/ea
MSC 351	Army ROTC Advanced Camp	4 sh
MSC 411	Seminars in Leadership and Professional Development	2 sh
MSC 412	Leadership, Law and Ethics	2 sh
MSC 441, 442	Leadership Laboratory	1 sh/ea
TOTAL		16 sh

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TWO-YEAR PROGRAM

This program is designed for junior college students or sophomores at four-year institutions who have not taken ROTC. A basic six-week summer training period after the sophomore year takes the place of the basic course required of students in the traditional four-year program. When a student with two years of college has successfully completed the basic summer training, he/she is eligible for the advanced ROTC course in his/her junior and senior years. The advanced course, which leads to an officer commission, is the same for students in either the two-year program or the four-year program.

MSC 111. INTRODUCTION OF CITIZEN/SOLDIER 1 sh

MSC 112. INTRODUCTION TO U.S. MILITARY FORCES 1 sh

Introduction to U.S. Military Forces provides an introduction to and fosters the early development of leadership and soldier skills. Topics of training include leadership, drill and ceremonies, first aid and general military subjects.

MSC 141,142. LEADERSHIP LABORATORY (each semester) 1 sh

Hands-on, practical training is the focus of the Leadership Laboratory. Students become proficient in basic military skills, drill and ceremonies, first aid and conducting inspections. Attention is also given to individual arms and marksmanship techniques.

MSC 211. DEVELOPMENT OF PROFESSIONAL MILITARY SKILLS I 1 sh

This course continues the development of cadet leadership and critical skills. Training is basic in scope and includes leadership, written and oral communications, physical fitness and general military subjects.

MSC 212. DEVELOPMENT OF PROFESSIONAL MILITARY SKILLS II 1 sh

Instruction in the second part of this sequence expands the students' frame of reference to include an understanding of roles and responsibilities and fosters internalization of the Professional Army Ethic. Training is basic in scope and includes written and oral communication, military skills, professional knowledge subjects and physical fitness.

MSC 241, 242. LEADERSHIP LABORATORY (each semester) 1 sh

This Leadership Laboratory serves as a learning laboratory for hands-on practical experiences. Training includes instruction on operations, tactics, land navigation, first aid and general military subjects. Key course components emphasize the functions, duties and responsibilities of junior noncommissioned officers. The primary focus is the continued development of leadership potential through practical experience. The APFT is given to assess the state of physical development.

MSC 251. ARMY ROTC BASIC CAMP 4 sh

Basic Camp is six weeks of training at Fort Knox, KY, consisting of Army history, role and mission, map reading/land navigation, rifle marksmanship, basic leadership techniques, physical training/marches, individual and unit tactics and communications. This course can be taken by rising juniors to substitute for MSC 111, 112, 141, 142, 211, 212, 241, 242. Prerequisites: qualification tests.

MSC 311. LEADERSHIP TRAINING 2 sh

Designed to prepare cadets for the full range of responsibilities associated with Advanced Camp, Leadership Training refines the leader development process. Instruction is supplementary in scope and includes leadership, written and oral communications, operations, tactics and general military subjects.

MSC 312. INTRODUCTION TO MILITARY TEAM THEORY 2 sh

This course emphasizes the development of intermediate level cadet leader skills in preparation for Advanced Camp. Training is supplementary in scope and includes leadership, written and oral communications, operations, tactics, land navigation, weapons and general military subjects.

MSC 341, 342. LEADERSHIP LABORATORY (each semester) 1 sh

In this learning laboratory for hands-on practical experiences, the focus is on soldier team development at a squad/patrol level; supplementary training includes land navigation and weapons. Emphasis is also placed on the development of intermediate leader skills in a field environment. The APFT is administered to assess physical development.

MSC 351. ARMY ROTC ADVANCED CAMP 4 sh

Normally taken the summer following the junior year, the six-week Advanced Camp training/internship is conducted at designated U.S. Army installations. Prerequisite: MSC 312.

MSC 411. SEMINARS IN LEADERSHIP AND PROFESSIONAL DEVELOPMENT 2 sh

Cadets develop leadership, technical and tactical skills through performance as a trainee/supervisor. Supplementary training includes leadership, written and oral communications, operations and tactics, physical fitness, training management and general military subjects. The focus gradually shifts to familiarize the student with future assignments as an officer.

MSC 412. LEADERSHIP, LAW AND ETHICS**2 sh**

This course continues the development of critical leadership skills. Training includes leadership, ethics, professionalism, law, written and oral communications, operations, tactics and general military subjects. The course culminates with instruction on making the transition to the Officer Corps.

MSC 441,442. LEADERSHIP LABORATORY (each semester)**1 sh**

Hands-on practical experiences reinforce cadet training, which is designed to solidify the commitment to officership, reinforce individual competencies and afford maximum practical officer leadership experiences. The laboratory emphasizes the functions, duties and responsibilities of junior Army officers with special attention directed to developing advanced leadership skills through active participation in planning and conducting military drills, ceremonies and field training.

MSC 451. AIRBORNE TRAINING**3 sh**

Three weeks of intensive airborne training includes physical conditioning, landing techniques, parachute safety, simulated jumps, procedures in and around aircraft and five combat jumps from Air Force aircraft at 1,250 feet. Selection for this opportunity is highly competitive. Only a few cadets nationwide are accepted.

Multimedia Authoring

Coordinator: Lecturer Kleckner

Associate Professor: Peeples

Assistant Professors: Conklin, Rosinski, Schaeffer, Wood

Lecturer: Strickland

As more and more information is disseminated electronically for personal computers and via the Internet, the artistic design and narrative quality of this digital content become increasingly important. The development of effective multimedia content can be especially challenging in traditionally human-centric disciplines such as training, education, entertainment and advertising. The Multimedia Authoring minor provides an interdisciplinary approach to the development of successful and persuasive digital content for all disciplines. These skills are beneficial for graduates in a variety of fields, but are especially relevant in publishing (both new electronic media, as well as traditional media), business marketing and business consulting.

This minor includes core courses from English, art and computing sciences intended to integrate the study of digital design and writing with a solid technical foundation. The final multimedia authoring project course provides an opportunity for students to apply the skills learned in writing, interface design, digital art and Web development to a significant project that will include both a research and application component. The project will address a multimedia challenge in the student's field of major study or related field of interest.

A minor in Multimedia Authoring requires the following courses:

ENG 212	Writing, Rhetoric and Interface Design	4 sh
ART 263	Digital Art I	4 sh
CIS 310	Interaction Design for Web and Multimedia	4 sh
CIS 320	Building Interactive Web Sites	4 sh
MMA 460	Multimedia Authoring Studio	4 sh

TOTAL**20 sh**

MMA 460. MULTIMEDIA AUTHORIZING STUDIO**4 sh**

Students will develop an interactive, multimedia project which incorporates text with computer graphics, video and audio. This project will address a multimedia challenge in the student's major field of study or related field of interest. Students will be involved in developing their final products through each stage of the full project lifecycle, including research, planning, design, implementation and maintenance/reflection. Prerequisites: ENG 212, ART 263, CIS 310, CIS 320.

Music

Chair, Department of Music: Professor D. Bragg

Professors: Erdmann, Fischer Faw

Associate Professors: Futrell, K. Lee, Metzger

Assistant Professor: Coppedge

Instructor: LaRocco

Professor Emeritus: Artley

Lecturers: Butler-Cornelius, Sawyer

Adjuncts: Achilles, M. Bragg, Carter, Celona, Cykert, Dharamraj, Dollak, Dollar, Dula,

Hogan, Henderson, R. King, McMillian, Milholin, Newton, Novine-Whitaker, Sullivan, Van Ord

Artist-in-Residence: Metzger

The Department of Music at Elon University offers three music degrees. The B.S. in Music Education is for those students who wish to teach in elementary, middle or high school music programs. The program is a collaborative effort between the Department of Music and the Department of Education. The A.B. in Music Performance is for those students who wish to emphasize the study of instrumental or vocal music. Students in this program will be expected to become accomplished performers while developing a solid base in theory and history. The A.B. in Music is primarily for those students who do not wish to concentrate on a performance area or who wish to double major in another liberal arts department. Students in this program will have a continuing background in musical performance through participation in ensembles of their choice and private lessons.

An audition is required for acceptance into this program.

A major in Music requires the following courses:

MUS 111	The Materials of Music I	3 sh
MUS 112	The Materials of Music II	3 sh
MUS 113	Aural Skills I	1 sh
MUS 114	Aural Skills II	1 sh
MUS 211	The Materials of Music III	3 sh
MUS 212	The Materials of Music IV	3 sh
MUS 213	Aural Skills III	1 sh
MUS 214	Aural Skills IV	1 sh
MUS 154	Piano Class I	1 sh
MUS 155	Piano Class II	1 sh
MUS 315	The Music of Ancient Times Through Baroque	4 sh
MUS 316	Classic and Romantic Music	4 sh
MUS 495	Senior Seminar	2 sh

In addition, each music major must complete:

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|---|---------|
| (a) Eight semester hours Music electives at 300-400 level | 8 sh |
| (b) Six semesters of applied music lessons | 6-10 sh |
| (c) Ensembles | 4 sh |

Concert attendance and departmental recital attendance
as outlined in the Music Student Handbook.

TOTAL
46-50 sh

An audition is required for acceptance into this program.

A major in Music Education requires the following courses:

MUS 111	The Materials of Music I	3 sh
MUS 112	The Materials of Music II	3 sh
MUS 113	Aural Skills I	1 sh
MUS 114	Aural Skills II	1 sh
MUS 211	The Materials of Music III	3 sh
MUS 212	The Materials of Music IV	3 sh
MUS 213	Aural Skills III	1 sh
MUS 214	Aural Skills IV	1 sh
MUS 313	Form and Analysis	2 sh
MUS 315	The Music of Ancient Times Through Baroque	4 sh
MUS 316	Classic and Romantic Music	4 sh
MUS 361	Percussion Techniques	1 sh
MUS 362	Brass Techniques	1 sh
MUS 363	Woodwind Techniques	1 sh
MUS 364	String Techniques	1 sh
MUS 365	Choral Techniques	1 sh
MUS 366	Conducting	2 sh
MUS 411	Instrumental and Choral Arranging	2 sh
MUS 413	Twentieth Century Techniques	2 sh
MUS 461	Music Education in the Public Schools	4 sh

In addition, each Music Education major must complete:

- | | |
|--|-------|
| (a) Applied music lessons, at least one semester at 300 level | 12 sh |
| (b) Half-recital accepted by music faculty | |
| (c) Ensemble from Music 101, 102, 103, 105 and 109
(Instrumental majors must complete two semesters of MUS 109) | 8 sh |
| (d) Keyboard proficiency | |

Concert attendance and departmental recital attendance
as outlined in the Music Student Handbook.

TOTAL
61 sh

In addition, vocal majors must take MUS 258, Diction for Singers I and MUS 259, Diction for Singers II.

The music student must also complete the required professional education courses and observe the requirements for the teacher education program as outlined under Education.

An Audition is required for acceptance into this program.

The major in Music Performance requires the following courses:

MUS 111	The Materials of Music I	3 sh
MUS 112	The Materials of Music II	3 sh
MUS 113	Aural Skills I	1 sh
MUS 114	Aural Skills II	1 sh
MUS 211	The Materials of Music III	3 sh
MUS 212	The Materials of Music IV	3 sh
MUS 213	Aural Skills III	1 sh
MUS 214	Aural Skills IV	1 sh
MUS 313	Form and Analysis	2 sh
MUS 315	The Music of Ancient Times Through Baroque	4 sh
MUS 316	Classic and Romantic Music	4 sh
MUS 413	20th Century Techniques	2 sh
MUS 495	Senior Seminar	2 sh
A choice of one of the following:		2 sh

MUS 366	Conducting
MUS 367	Vocal Pedagogy
MUS 368-369	Methods and Materials of Piano Pedagogy and Practicum
MUS 411	Instrumental and Choral Arranging

In addition, each Music Performance major must complete:

(a)	Applied music lessons, at least one semester at the 400 level	14 sh
(b)	Half solo recital at the 300 level	
(c)	Full solo recital at the 400 level	
(d)	Ensemble from Music 101, 102, 103, 105 and 109	8 sh
	Vocal majors must choose between MUS 102 and 105	
	Instrumental majors must choose between MUS 101, 103 or 109	
	Piano majors may choose between MUS 101, 102, 103, 105 or 109	
(e)	Keyboard proficiency	
	Concert attendance and departmental recital attendance	
	as outlined in the Music Student Handbook.	

TOTAL	54 sh
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In addition, vocal majors must take MUS 258, Diction for Singers I and MUS 259, Diction for Singers II.

An audition is required for acceptance into this program.

A minor in Music requires 20 semester hours. Students lacking functional knowledge of the keyboard must accumulate two semester hours in piano either prior to, or simultaneously with, their enrollment in Music 111 and 112.

The following courses are required:

MUS 111	The Materials of Music I	3 sh
MUS 112	The Materials of Music II	3 sh

A choice of one of the following: 4 sh

MUS 303	Music History for the Liberal Arts Student
MUS 315	The Music of Ancient Times Through Baroque
MUS 316	Classic and Romantic Music
MUS 319	History of American Music
MUS 368/369	Methods and Materials of Piano Pedagogy and Practicum

In addition, each Music Minor must complete:

(a) One medium of applied music instruction	6 sh
(b) Ensemble from MUS 101, 102, 103, 105, 106 and 109	4 sh

TOTAL 20 sh

A minor in Jazz Studies requires 24 semester hours.

The following courses are required:

MUS 111	The Materials of Music I	3 sh
MUS 112	The Materials of Music II	3 sh
MUS 113	Aural Skills I	1 sh
MUS 114	Aural Skills II	1 sh
MUS 254	Jazz Improvisation I	1 sh
MUS 255	Jazz Improvisation II	1 sh
MUS 256	Jazz Harmony	2 sh
MUS 318	History of Jazz	4 sh

In addition, each jazz studies minor must complete:

(a) One medium of applied music instruction	4 sh
(b) Ensemble from MUS 104 or 219	4 sh

TOTAL 24 sh

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Applied Music: Individual and Group Instruction

Music majors/minors register for the appropriate level and area of applied music study as determined by audition and consultation with their advisor or the department chair. With permission of the department, enrolled students may register for any course in applied music. Weekly 30-minute lesson: one semester hour credit (Section A). Weekly 60-minute lesson: two semester hours credit (Section B). A special fee is required.

APPLIED MUSIC: INDIVIDUAL INSTRUCTION

Piano: 120, 220, 320, 420	Bassoon: 131, 231, 331, 431
Organ: 121, 221, 321, 421	Saxophone: 132, 232, 332, 432
Voice: 122, 222, 322, 422	Violin: 133, 233, 333, 433
Trumpet: 123, 223, 323, 423	Viola: 134, 234, 334, 434
French Horn: 124, 224, 324, 424	Cello: 135, 235, 335, 435
Trombone: 125, 225, 325, 425	String Bass: 136, 236, 336, 436
Baritone (Euphonium): 126, 226, 326, 426	Guitar: 137, 237, 337, 437
Tuba: 127, 227, 327, 427	Percussion: 138, 238, 338, 438
Flute: 128, 228, 328, 428	Electric Bass: 139, 239, 339, 439
Oboe: 129, 229, 329, 429	Harp: 140, 240, 340, 440
Clarinet: 130, 230, 330, 430	

*Applied Music: Group Instruction***MUS 152, 153. VOICE CLASS I and II** 1 sh

Group voice instruction ranges from beginning to intermediate.

MUS 154-156. PIANO CLASS I-III 1 sh

Group piano instruction ranges from beginner to intermediate.

MUS 158. GUITAR CLASS 1 sh

Beginners develop musical skills with the guitar — simple chords, melodies and songs — using elements of classical guitar techniques as a foundation.

MUS 258. DICTION FOR SINGERS I 1 sh

Students learn to use the International Phonetic Alphabet and are introduced to the pronunciation of English, Latin and French as it applies to vocal literature. Offered fall alternate years.

MUS 259. DICTION FOR SINGERS II 1 sh

Students continue to learn the International Phonetic Alphabet and are introduced to the pronunciation of Italian and German as it applies to vocal literature. Offered spring alternate years.

*Music Materials, Structures and Techniques***MUS 111, 112. THE MATERIALS OF MUSIC I and II** 3 sh

A study of the fundamentals of music, diatonic harmony and elementary voice-leading and part-writing includes an introduction to harmonic-melodic form, analysis and synthesis of harmonic practices through secondary seventh chords. Offered fall and spring.

MUS 113, 114. AURAL SKILLS I and II 1 sh

Study emphasizes melodic-harmonic-rhythmic dictation, sight singing and keyboard study. Offered fall and spring.

MUS 211, 212. THE MATERIALS OF MUSIC III and IV 3 sh

A continuation of Music 112 on an advanced level includes complex chromatic harmonies and emphasizes analysis and composition of standard musical forms. Prerequisite: MUS 112. Prerequisite for 212: MUS 211. Offered fall and spring.

MUS 213, 214. AURAL SKILLS III and IV 1 sh

These courses provide advanced study in melodic-harmonic-rhythmic dictation, sight singing and keyboard study. Prerequisite: MUS 114. Offered fall and spring.

MUS 254, 255. JAZZ IMPROVISATION I and II 1 sh

Instrumentalists or vocalists develop skills in improvisational jazz performance techniques.

MUS 256. JAZZ HARMONY 2 sh

This course is a study of jazz harmonic vocabulary and its application to the jazz repertoire. Seventh chords, chord symbols, voicings, guide tones, color tones, voice leading and reharmonizations are examined. All students play the instrument of their choice and piano. Prerequisite: MUS 112.

MUS 311. COUNTERPOINT 4 sh

Analysis and composition of period works are part of the study of counterpoint from the 16th to 20th centuries with applications to various vocal and instrumental writings. Prerequisite: MUS 212.

MUS 313. FORM AND ANALYSIS 2 sh

This course acquaints the student with the standard forms of tonal music through the aural and visual study of micro and macro forms of representative works. Prerequisite: MUS 112. Offered fall of alternate years.

MUS 411. INSTRUMENTAL AND CHORAL ARRANGING 2 sh

Students explore technical possibilities and limitations of individual instruments and voices. Study also covers arranging and transcribing for various combinations of instruments and voices. Prerequisite: MUS 112.

MUS 413. 20th CENTURY TECHNIQUES 2 sh

This course is a study of the changes which have taken place in music of the 20th century. Techniques to be studied include atonality, polytonality, serialism, integral serialism, dodecaphony and electronic music. Prerequisite: MUS 112. Offered spring of alternate years.

MUS 265-465. COMPOSITION 1 sh

Students write compositions integrating techniques of studied repertoire as they explore musical composition in weekly individual meetings with an instructor. Prerequisite: MUS 112 or permission of instructor.

*Literature and History***MUS 216. THE STUFF OF MUSIC** 4 sh

Through a series of exercises, readings, outside class activities and class participation, students become familiar with the materials which form the basis of music, including instruments, notation and terminology. Hands-on application includes basic performance on rhythm instruments and composing simple music compositions.

MUS 217. WORLD MUSIC 4 sh

Text readings, listening, research, writing and class presentation are part of an introduction to the music of Asia, Eastern Europe, Africa, and Central and South America. Students gain increased awareness of the art and music of other cultures, make connections with their own art and folk traditions and search for shared meanings of all musical licensure.

MUS 303. MUSIC HISTORY FOR THE LIBERAL ARTS STUDENT 4 sh

Nonmusic majors gain improved skills to enhance musical enjoyment, basic knowledge of music styles and events, and focus on placing this knowledge in the context of world events and trends. Study covers selected personalities and works in music through substantial reading, listening, research and writing.

MUS 315. THE MUSIC OF ANCIENT TIMES THROUGH BAROQUE 4 sh

This survey of music through the Baroque period emphasizes Renaissance and Baroque counterpoint through reading, listening, analysis, research and writing. Prerequisite: MUS 112. Offered fall of alternate years.

MUS 316. CLASSIC AND ROMANTIC MUSIC 4 sh

By reading, listening, research and writing, students explore the relationship of 18th- and 19th-century music to the world — as the expression of artists responding to political, social and philosophical environments. The course also emphasizes the progressive study of formal analysis, from smaller forms to the large single and multi-movement genres of the period. Prerequisite: MUS 112. Offered fall of alternate years.

MUS 318. HISTORY OF JAZZ 4 sh

This overview of jazz music from about 1900 to the present is designed for the liberal arts major. Topics include jazz styles, individual musicians and the development and progress of jazz through the 20th century.

MUS 319. HISTORY OF AMERICAN MUSIC 4 sh

Study of American music from 1620 to the present focuses on elements of various musical cultures (e.g., Western and Eastern Europe, Africa, Latin America) that have influenced the American style of music.

MUS 343. AFRICAN-AMERICAN COMPOSERS**4 sh**

This course looks at the lives of African-American composers, their music and the social structure within which they lived. The course allows students to investigate the artistic impact of American historical events and trends such as Jim Crow laws, segregation and cabaret cards.

MUS 345. THE MUSIC OF MILES DAVIS**4 sh**

Jazz musician, composer, innovator, arranger, trumpeter Miles Davis (1926-1991) is easily arguable as the most significant jazz musician who ever lived. This course will look in-depth at Davis' music and how it reflected American culture in each of the decades of the last half of the 20th century.

MUS 469. WOMEN IN MUSIC**4 sh**

This course will look at the lives and music of women musicians, composers and performers and the social structure within which they live and lived. The course will allow students to investigate the artistic impact of historical events and trends in not only America, but also the world, and how women in different eras were able to interact musically.

Music Education

The following technique courses are required for music majors seeking music teacher licensure.

MUS 361. PERCUSSION TECHNIQUES**1 sh****MUS 362. BRASS TECHNIQUES****1 sh****MUS 363. WOODWIND TECHNIQUES****1 sh****MUS 364. STRING TECHNIQUES****1 sh****MUS 365. CHORAL TECHNIQUES****1 sh****MUS 366. CONDUCTING****2 sh**

Students develop skill in baton and rehearsal techniques and interpretation in training and leading various ensembles of instruments and voices.

MUS 367. VOCAL PEDAGOGY**2 sh**

This upper-level course focuses on the scientific and psychological aspects of singing and how this knowledge is applicably useful to the teacher of voice. It introduces basic anatomy and the physical processes of phonation along with psychological concepts that aid in the training and use of the singing voice. Physiological topics include resonance, breath support, tone production, vowels registration and flexibility. Other topics include pedagogical methods, vocal problems and vocal artistry. Prerequisite: One year of private voice at the MUS 122-B level. Offered fall of alternate years.

MUS 461. MUSIC EDUCATION IN THE PUBLIC SCHOOLS**4 sh**

A study of the methods and materials suitable for teaching at all levels covers the administration of band, orchestra and choral programs in the public schools with additional emphasis on marching band techniques. Prerequisite: MUS 112. Offered spring of alternate years.

*Ensembles***MUS 101. WIND ENSEMBLE****1 sh**

Open to all students.

MUS 102. ELON CHORALE**1 sh**

Open to all students.

MUS 103. ELON CHAMBER ORCHESTRA**1 sh**

By audition only.

MUS 104. JAZZ ENSEMBLE	1 sh
By audition only.	
MUS 105. ELON CAMERATA	1 sh
By audition only.	
MUS 106. CHAMBER ENSEMBLE	1 sh
By audition only.	
MUS 107. ÉLAN (vocal jazz ensemble)	1 sh
By audition only.	
MUS 108. PERCUSSION ENSEMBLE	1 sh
By audition only.	
MUS 109. ELON UNIVERSITY MARCHING BAND	1 sh
This ensemble will furnish half-time entertainment for football games and serve as a model for music education majors in the instruction and development of various styles of marching bands. Offered fall.	
MUS 219. JAZZ COMBO	1 sh
Students explore jazz literature for small groups of instruments to gain an understanding of individual roles in a small ensemble. This will include planning, graphing and constructing improvisations within various musical forms.	
<i>Other Offerings</i>	
MUS 368. PIANO PEDAGOGY PRACTICUM	1 sh
The practical application of methods and skills learned in MUS 369. Prerequisite: MUS 369.	
MUS 369. METHODS AND MATERIALS OF PIANO PEDAGOGY	3 sh
Students interested in teaching piano in a private studio explore group and individual instructional techniques for beginning and intermediate students, suitable repertoire, basic keyboard musicianship and pupil psychology. Each student will teach a young piano student under faculty supervision.	
MUS 471. SEMINAR: SPECIAL TOPICS	1-4 sh
Small groups study under the guidance of a member of the staff.	
MUS 491. INDEPENDENT STUDY	1-4 sh
MUS 495. SENIOR SEMINAR	2 sh
This capstone experience for music includes a comprehensive evaluation of the student's previous education in the major field, a major project to demonstrate proficiency in the student's major area of interest or emphasis and preparation of materials necessary for enrollment in graduate school or the profession.	

Music Theatre

Chair, Department of Performing Arts: Associate Professor McNeela
 Professor: D. Bragg
 Associate Professors: Becherer, K. Lee, Rubeck, Sabo, Wellford
 Assistant Professors: Gang, Ma, Formato, Kurdziel, Sabo, Smith, Wahl, Webb
 Adjuncts: Flannery, Hyers, Johnson

The Department of Performing Arts offers a Bachelor of Fine Arts in Music Theatre, a degree geared toward the student who wishes to pursue a career in performance or gradu-

ate studies following graduation. Admission to the program requires an audition demonstrating initial talent.

Coursework within this major is designed to train students in the three essential skill areas for music theatre: music, acting and dance. Students take studio dance classes in ballet, jazz, modern and tap, studio voice lessons, music theory, and a minimum of four semesters of acting. Further study includes the literature and history of music theatre.

Practical application of all aspects of study are expected through participation in department stage productions, concerts and recitals. Outreach to the professional world occurs throughout the course of study through participation in vocal, dance and theatre festivals, conventions, auditions and competitions. The final result is an artist prepared for entry to the world of professional performance.

A major in Music Theatre requires the following courses:

MTE 301	History of Music Theatre	4 sh
MTE 302	Music Theatre Literature	4 sh
MTE 321	Performance in Music Theatre	4 sh
MTE 495	Senior Seminar	4 sh
MUS 111	Materials of Music I	3 sh
MUS 113	Aural Skills I	1 sh
MUS 154	Piano Class	1 sh
THE 120	Acting I	4 sh
THE 220	Acting II	4 sh
THE 221	Acting III	4 sh
DAN 150	Dance for the Musical Stage I	1 sh
DAN 420	Dance for the Musical Stage II	1 sh

In addition, each major must complete the following:

- | | |
|--|-------|
| (a) six semesters of private voice at appropriate level | 12 sh |
| (b) six semesters of studio technique courses in dance with a minimum of one credit in each of the following: Ballet, Jazz, Modern and Tap | 6 sh |
| (c) electives selected from Music Theatre, Theatre Arts, Dance or Music | 14 sh |
| (d) one semester hour of singing in an ensemble | 1 sh |

TOTAL	68 sh
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MTE 301. HISTORY OF MUSIC THEATRE 4 sh

This course, open to all students, explores the origins and development of music theatre, its theatrical conventions and major elements from the mid-18th century to the present. Offered fall.

MTE 302. MUSIC THEATRE LITERATURE 4 sh

The purpose of this course is to expose the student to the staples of the music theatre literature, to develop a critical sensitivity to the medium and to enable analysis of music, plots, characters and situations in contemporary music theatre. Prerequisites: MUS 111, 113. Offered spring.

MTE 321. PERFORMANCE IN MUSIC THEATRE 4 sh

This performance-oriented course provides a systematic approach to achieving a high level of singing-acting skills. Students also receive training and practice in selecting, preparing and presenting audition material. Prerequisites: MUS 122 B, THE 120. Offered spring.

MTE 322. MUSIC THEATRE AND OPERA SCENE STUDY 4 sh

This performance-oriented course integrates music and theatre performance skills

through the selection, development and presentation of partnered scenes from music theatre and opera repertoire. Prerequisites: two semesters of MUS 122 B or permission of instructor.

MTE 495. SENIOR SEMINAR

4 sh

This capstone experience for senior majors centers on a practical project which demonstrates proficiency in performance skills and preparation for graduate study or entry into the profession. Prerequisite: senior majors only. Course is two semesters in length. Students must take both semesters. Offered fall and spring.

Non-Violence Studies

Coordinator: Associate Professor Pickens

Non-Violence Studies takes an interdisciplinary approach to seeking solutions to violence in its many forms. This program offers students the opportunity to critically analyze popular notions concerning the causes of violence and challenges them to consider a variety of other perspectives. By taking courses in a number of disciplines, all focused on the same topic, students are encouraged to integrate the methods and essential questions of fields including religion, political science, economics, literature, sociology and psychology.

This minor is recommended for those interested in multicultural and international relations. The minor consists of a minimum of 20 semester hours, including a capstone course. An internship of 1-4 semester hours is strongly recommended.

A minor in Non-Violence Studies requires the following:

NVS 461-469 capstone course 4 sh

Sixteen semester hours selected from the following courses
or other approved newly offered courses from at least three
different departments. 16 sh

The following courses are regularly offered and listed by title in the catalog:

- ENG 337 Asian Literature of Social Change
- PHL 115 Ethical Practice
- PHL 352 Eastern Philosophy
- PHL 348 Environmental Ethics
- POL 141 International Relations
- POL 304 Theorists of Non-Violence
- POL 324 Civil Liberties
- POL 342 U.S. Foreign Policy
- POL 345 International Terrorism
- POL 367 Politics of Africa
- POL 368 Latin American Politics
- PSY 325 Psychology of American Protest Music
- PSY 327 Psychology of Non-Violence
- PSY 357 Criminal Behavior
- REL 343 Women, Violence and Resistance
- REL 344 Christianity and Social Justice
- REL 348 Environmental Ethics
- REL 353 Buddhism
- SOC 241 Social Issues and Problems
- SOC 245 Non-Violence of the Brave: From Gandhi to King

SOC 341 Ethnic and Race Relations

SOC 343 Social and Cultural Change

The following special topics courses are offered at various times, although not listed by title in the catalog:

ENG 370 Simple Living

ENG 372 Literature of Non-Violence

GST/ENG 373 America and Vietnam

GST/PHL 330 Economic Justice

HST 133 Civil Rights Movement

HST 388 History of the Caribbean

HST 463 Senior History Seminar: Local Civil Rights History
(capstone course in the major)

JCM 373 Martin Ritt and American Society

NVS 171 Introduction to Mediation

POL 374 Judicial Administration

POL 377 Politics of Victimization

POL 441 Peace, War and Conflict Resolution

REL 279 Topics in Eastern Religion

TOTAL**20 sh****NVS 461-469. SEMINARS ON NON-VIOLENCE****4 sh**

These seminars combine two or more interdisciplinary approaches to the problem of violence. Each will include exploration of non-violent approaches to conflict situations. Prerequisites: two courses in non-violence studies.

NVS 381. INTERNSHIP IN NON-VIOLENCE STUDIES**1-4 sh**

Research, service and occupational internships focusing on issues relating to violence and non-violence. Prerequisites: two courses in non-violence studies and permission of

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Philosophy

Chair, Department of Philosophy: Professor Weston

Professor: Sullivan

Associate Professors: Batchelor, Cahill, Lubling

Assistant Professor: Fowler

Adjunct: Cole, Gatens-Robinson, Jegstrup

Philosophy lies at the heart of a liberal arts education. Philosophy at Elon has both a wisdom orientation for exploring enduring human concerns and a practical intent to enhance our lives together and our care for the earth.

Philosophical study at Elon focuses on three sets of skills: (1) critical and constructive thinking — aiding students in identifying, analyzing and offering solutions to problems; (2) ethical practice — exploring ways to act wisely and effectively in our life with others; and (3) interpretive understanding — allowing students to bridge the meaning and value systems of diverse individuals, cultures and epochs.

Such skills are valuable for law and leadership, ministry and the helping professions, citizenship and service, and for deepening the quality of our lives. At 36 semester hours, the philosophy major is designed to allow room for a double major or a career-related minor.

A major in Philosophy requires the following courses:

PHL 113	Critical Thinking	4 sh
PHL 115	Ethical Practice	4 sh
PHL 331	Ancient Philosophy	4 sh
PHL 333	Modern Philosophy	4 sh
One course from the following:		4 sh
PHL 431	Contemporary Philosophy	
PHL 432	American Philosophy	
PHL 433	Marx, Darwin and Freud	
Three courses chosen from any additional philosophy offerings		12 sh
PHL 461	Integrative Tutorial	4 sh
TOTAL		36 sh

A minor in Philosophy requires the following courses:

PHL 113	Critical Thinking	4 sh
PHL 115	Ethical Practice	4 sh
One course from the following:		4 sh
PHL 331	Ancient Philosophy	
PHL 333	Modern Philosophy	
Two courses chosen from any additional philosophy offerings		8 sh
TOTAL		20 sh

PHL 113. CRITICAL THINKING 4 sh

This foundation course in critical thinking introduces reading and listening skills, argument analysis and evaluation, and creative problem-solving methods. Such skills are valuable throughout life, from making effective presentations to promoting independent thinking. Offered fall and spring.

PHL 115. ETHICAL PRACTICE 4 sh

Ethical practice is a foundation course exploring ways to act wisely and effectively in our life with others. Drawing on the philosophical tradition and on critical examination of life situations, students engage such topics as personal integrity, sensitivity and fairness to others, and conditions for collaborative and respectful living. Offered fall and spring.

PHL 331. ANCIENT PHILOSOPHY 4 sh

This study of the origins of Western philosophy concentrates on the Golden Age of Greece, including such topics as Socrates, his predecessors and his great successors, Plato and Aristotle. Students consider what it means to live a human life in a humane and liberating communal context. Offered at least once every two years.

PHL 332. MEDIEVAL PHILOSOPHY 4 sh

This study focuses on 12th and 13th century European intellectual developments, showing how Platonic and Aristotelian strands blend with Jewish, Christian and Islamic elements. Special topics include Bernard and Abelard, Averroes and Maimonides, Hildegard and Mechtild, Aquinas and Bonaventure, and Dante and Eckhart.

PHL 333. MODERN PHILOSOPHY 4 sh

Discussion centers on crucial intellectual developments in the 17th and 18th centuries when the modern Western worldview arose. Specific attention is given to far-reaching changes in philosophical methods, theory of knowledge, new senses of self and world, and thinkers such as Descartes, Hume and Kant. Offered at least once every two years.

PHL 334. POLITICAL PHILOSOPHY**4 sh**

Discussion focuses on the roots of modern political thought, including such key 17th- and 18th- century developments as the case for sovereignty in the modern nation state, the rise of individual rights and the rationale for modern democracy. Major thinkers such as Hobbes, Locke and Rousseau are studied against the background of their turbulent times.

PHL 337. DANTE'S JOURNEY**4 sh**

This course will follow Dante's journey as expressed in *The New Life* and *The Divine Comedy*. In the process of following Dante's journey, we will explore the phenomenon of courtly love, go through Hell together, learn the process of getting in touch with the more subtle obstacles to our growth as we climb the seven-storied mountain of Purgatory and finally explore levels of consciousness that take us through the spheres of spiritual deepening to the Love that moves the sun and other stars.

PHL 341. PHILOSOPHY OF LAW**4 sh**

This basic examination of the nature, function and limits of law gives attention to human rights and natural justice, law and morality, theories of punishment and questions of legal responsibility. The course is of particular interest to prelaw, business and political science students.

PHL 342. PHILOSOPHY AND SOCIETY**4 sh**

This course pursues a philosophical approach to the relation of individuals and social institutions. Topics considered may include the nature and possibility of the social sciences, philosophy of technology and the nature of community.

PHL 343. AGES AND STAGES OF LIFE**4 sh**

In an archetypal approach to the stages of life, this course draws from transpersonal psychology/philosophy and from myths and stories of the first and second halves of life. The study seeks practical insights from developmental psychology and various spiritual teachings to help students deal with crucial life issues.

PHL 344. PHILOSOPHY OF SCIENCE**4 sh**

Course study promotes the intelligent, critical assimilation of scientific information by developing a general framework for analyzing scientific claims. Topics include the structure of scientific reasoning, science in its cultural context, and the logical and other elements shaping scientific change.

PHL 345. FEMINIST PHILOSOPHY**4 sh**

This survey and application of feminist philosophies examines central ideas in feminist thought, including the social construction of gender, the exclusion of women from traditional philosophy and the intersection of gender with other social factors such as race and class.

PHL 348. ENVIRONMENTAL ETHICS**4 sh**

Students explore the bearing of philosophical and religious ethics upon practical problems regarding the natural environment. This course also considers the possible need for new ethical frameworks to address the environmental crisis we now face. (Cross-listed with REL 348.)

PHL 352. EASTERN PHILOSOPHY**4 sh**

Eastern Philosophy centers first on ancient China, exploring *The Book of Changes* and the thought of Lao Tzu and Confucius. The course continues with investigation of Buddha's insight, following Mahayana Buddhism into China where it becomes Zen. Finally, the course examines the spirit of Zen and its influence on Japanese arts and culture.

PHL 355. PHILOSOPHY OF RELIGION**4 sh**

This course explores Eastern and Western approaches to religious experience and notes differences between the literal, moralistic (exoteric) and the symbolic, mystical (esoteric) understandings of any religion. Students examine parable, teaching story, paradox and the problem of religious language and consider ways of assessing religious claims, communities and personal practices. (Cross-listed with REL 355.)

PHL 371-379. SPECIAL TOPICS**4 sh**

Special topics are variable courses of timely and enduring interest. Past and current offerings include:

- PHL 371 Restorative Justice
- PHL 372 Philosophy of Education
- PHL 373 Philosophy and the Holocaust
- PHL 374 Philosophy of Love and Feminism
- PHL 375 Philosophical Themes in the Films of Woody Allen
- PHL 376 Philosophy of Camus
- PHL 377 Theories of Knowledge
- PHL 378 Law in Literature and Film
- PHL 379 Living Philosophically

PHL 431. CONTEMPORARY PHILOSOPHY**4 sh**

Students become acquainted with philosophical trends in the 20th century and develop appropriate skills of inquiry. The course surveys the changing landscape of philosophy in this volatile century and introduces students to key figures who have shaped that landscape.

PHL 432. AMERICAN PHILOSOPHY**4 sh**

Focusing on the rich heritage of 19th- and 20th-century American thought from such figures as Emerson, Thoreau, Pierce, James, Dewey and others, this course emphasizes the originality of American philosophy and its continuing relevance.

217**PHL 433. MARX, DARWIN AND FREUD****4 sh**

These revolutionary makers of the modern mind — Marx, Darwin and Freud — have had enduring influence on subsequent thought in such diverse fields as philosophy and politics, biology and religion, sociology and psychology. This course examines their work in light of more recent attempts to incorporate, reform and extend their insights.

PHL 461. INTEGRATIVE TUTORIAL**4 sh**

This capstone course integrates the student's understanding of the history, issues and demands of philosophy via readings, class discussion and individual mentoring projects with philosophy faculty. It culminates with a final project on a topic chosen by the student which requires substantial philosophical research, writing and reflection and is evaluated by all members of the department. Offered fall of senior year.

PHL 471. SEMINAR: SPECIAL TOPICS**4 sh****PHL 481. INTERNSHIP IN PHILOSOPHY****1-4 sh**

The internship provides work experience in a setting that is rich with practical philosophical problems. The goal is to enrich the student's appreciation of the link between philosophy and life. Offered on an individual basis when suitable opportunities can be arranged. Permission of the department is required.

PHL 491. INDEPENDENT STUDY**1-4 sh**

Physical Education

Chair, Department of Health and Human Performance: Associate Professor J. Davis

Professors: Beedle, Calhoun, White

Assistant Professors: Morningstar, Parson, C. Smith

Lecturer: Hedrick

Instructors: Leonard, Perry

The Physical Education curriculum located within the Health and Human Performance Department is designed to prepare students to become teachers. The program is broad-based and includes evaluating and improving the student's psychomotor and cognitive skills through a wide range of activity courses, specialized theory courses and continued opportunity for applying these skills and concepts in educational and laboratory settings.

Through this study, students gain knowledge of the concepts and skills related to teaching sport and physical activity. Graduates in the major are successful teachers and coaches and many pursue graduate degrees.

A major in Physical Education requires the following courses:

DAN 115	Folk, Square and Social Dance	1 sh
Select any activities course		1 sh
PED 125	Skills and Activities for Teaching	3 sh
PED 211	History/Foundations of Sport/Physical Education	4 sh
PED 305	Legal Aspects	2 sh
PED 310	Motor Learning Theory for Teaching and Coaching	4 sh
PED 321	Biomechanics	4 sh
PED 341	Theory of Coaching	2 sh
PED 360	Elementary Physical Education (K-6)	4 sh
PED 401	Adapted Physical Education	2 sh
PED 410	Organization and Administration	4 sh
PED 411	Measurement and Evaluation	4 sh
HED 220	First Aid	1 sh
ESS 422	Physiology of Exercise	4 sh
BIO 161	Human Anatomy	4 sh
BIO 162	Human Physiology	4 sh
TOTAL		48 sh

Students desiring **teacher licensure in physical education** must also take the professional studies requirements listed for Special Subjects areas (K-12) under Education. (EDU 450 is not required.)

The Health Education endorsement (for students with teacher licensure) requires the following courses:

EDU 427	Materials and Methods of Teaching Health and Safety	4 sh
Sixteen hours chosen from the following:		16 sh
HED 321	Health Services and Consumerism	
HED 324	Nutrition	
HED 325	Substance Abuse and Human Behavior	

HED 326	Human Sexuality
HED 421	Chronic and Acute Diseases

TOTAL	20 sh
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A minor in Physical Education requires the following courses:

Four courses chosen from one-hour skills classes	4 sh or
PED 125 Skills and Activities for Teaching and one skills course	
PED 310 Motor Learning Theory for Teaching and Coaching	4 sh
PED 360 Elementary Physical Education (K-6)	4 sh
EDU 423 Materials and Methods of Teaching Physical Education	4 sh
PED 341 Theory of Coaching	2 sh

TOTAL	18 sh
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PED 100. TENNIS **1 sh**

Students learn rules, skills and strategy of tennis. Offered fall and spring.

PED 101. RACQUETBALL **1 sh**

Students learn rules, skills and strategy of racquetball. Offered fall and spring.

PED 103. RECREATIONAL SPORTS **1 sh**

Students learn rules, skills and strategy of a variety of recreational sports, including archery, badminton and paddle tennis.

PED 105. GOLF, BEGINNING AND INTERMEDIATE **1 sh**

Students learn rules, skills and strategy of golf. Must have personal transportation. Offered fall and spring. Special fee: \$30.

PED 106. BEGINNING SWIMMING AND EMERGENCY WATER SAFETY **1 sh**

An introduction to basic swimming techniques and general water safety instruction, including how to respond effectively in a water emergency. The goal is to create an awareness of causes and prevention of water accidents. Beginning Swimming and Emergency Water Safety certificate given. Special fee: \$13.

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PED 107. LIFEGUARD TRAINING **3 sh**

Students gain knowledge and skills for aquatic safety and nonsurf lifeguarding, first aid, professional rescuer CPR and head lifeguarding. Students will receive Red Cross certification upon successful completion. Prerequisites: strong swimming skills. Special fee: \$28.

PED 108. BASKETBALL **1 sh**

Students learn rules, skills and strategy of basketball.

PED 109. CONDITIONING/WEIGHT TRAINING **1 sh**

Progressive development of physiological fitness designed to meet the needs of the individual student, including weight and cardiorespiratory training.

PED 110. SOFTBALL **1 sh**

Students learn rules, skills and strategy of softball.

PED 111. AEROBIC CONDITIONING **1 sh**

Students have the opportunity to improve their physical fitness level through aerobic activities using correct techniques. Offered as available.

PED 112. SOCCER **1 sh**

Students learn rules, skills and strategy of soccer.

PED 113. VOLLEYBALL **1 sh**

Students learn rules, skills and strategy of volleyball.

PED 116. OUTWARD BOUND EXPERIENCE

1-3 sh

This is a course in wilderness survival, including physical survival skills, fitness, cognitive and emotional skills and study of the natural world. Offered as personnel are available or Independent Study.

PED 125. SKILLS AND ACTIVITIES FOR TEACHING

3 sh

Students learn skills and techniques for selected activities taught in public school physical education. Learning experiences include analyzation, organization and evaluation methods. Activities will be chosen from archery, badminton, bowling, golf, racquetball, weight training, volleyball, soccer, tennis and other team sports. As public school needs change, the curriculum for this course may be altered. Offered spring.

PED 208. WATER SAFETY INSTRUCTOR (WSI)

3 sh

Detailed study of methods and materials used to teach Red Cross swimming and aquatics safety courses. Successful completion qualifies WSIs to teach infant and pre-school aquatics, progressive swimming courses, basic water safety and emergency water safety. Prerequisites: minimum age of 17, strong swimming skills, current certification for Emergency Water Safety or Lifeguard Training. Special fee: \$23.

PED 209. SKIN AND BASIC SCUBA DIVING

2 sh

Students learn the art of skin and scuba diving, including the physics, physiology and mechanics of diving; safe diving practices; marine life and environment; dive planning and various aspects of sport diving. Completion of all requirements leads to P.A.D.I. open water certification. Equipment requirements: mask, fins and snorkel. Prerequisites: minimum age of 15, pass a swimming test, medical exam and payment of special fee before scuba work begins. Special fee: \$200.

PED 211. HISTORY/FOUNDATIONS OF SPORT/PHYSICAL EDUCATION

4 sh

An introduction to the philosophical, psychological and sociological foundations and the history of physical education, including current issues, trends and the economic impact of sport and fitness on society. Offered fall.

PED 265. OFFICIATING

2 sh

This course provides a thorough study of the rules and mechanics of sport officiating. Practical experience in officiating may be provided at the community, Little League, middle school and junior varsity levels. Offered as needed.

PED 305. LEGAL ASPECTS

2 sh

This course provides a study of the legal environment of leisure, sport, health and school organizations, emphasizing applications of tort, criminal, employment, contract, property and constitutional law. Students learn the principles of risk management and relevant applications and discuss current legislation affecting the field. Offered fall and spring.

PED 309. ADVANCED OPEN WATER SCUBA

2 sh

The Advanced Open Water Scuba course is offered through certified and insured adjunct P.A.D.I. instructors. This course is designed to expand the knowledge base and skills acquired in PED 209. Students will complete a detailed study of all the topics covered in Basic Scuba. In addition, they will develop a knowledge base and skills for deep diving, night diving, underwater navigation, search and recovery and rescue diving. The student will receive P.A.D.I. Certifications in Advanced Open Water and Rescue Diving upon successful completion of the course. Equipment requirements: mask, fins and snorkel. Prerequisite: P.A.D.I. Open Water Certification or equivalent. Special fee: \$275.

PED 310. MOTOR LEARNING THEORY FOR TEACHING AND COACHING

4 sh

This course provides Physical Education teachers and coaches knowledge and understanding of how learning and optimum performance of motor skills occur. Study of the

characteristics and interactions between student/athlete, teacher/coach and the learning environment coupled with synthesis of recent research, experimentation and analysis enables participants to teach motor skills efficiently. Prerequisites: PED 125, 211 or permission of the instructor. Offered spring.

PED 321. BIOMECHANICS 4 sh

Students study the musculoskeletal system and biomechanics from the point of view of Physical Education activities, exercise/sports injuries and sports skills. Laboratory activities include the use of motion analysis software for projectile analysis, gait analysis, vertical jump analysis, conservation of angular momentum, analysis of lifting and calculation of center of gravity. This course requires a two-hour laboratory. Prerequisite: BIO 161; for ESS majors, ESS 263. Offered fall and spring.

PED 341. THEORY OF COACHING 2 sh

Provides a thorough study of the role of coaches in the school and community, including coaching philosophy, ethics, relationships, motivation and responsibilities. Offered fall.

PED 360. ELEMENTARY PHYSICAL EDUCATION (K-6) 4 sh

This class is designed to prepare students to teach physical education in grades K-6. This preparation includes knowledge of movement education, motor skills, skill analysis and pedagogy. Clinical hours in public schools are required. Prerequisite: PED 211. Offered spring.

PED 401. ADAPTED PHYSICAL EDUCATION 2 sh

This course provides Physical Education teachers knowledge and understanding of current legislation, techniques and methods of teaching physical activities to individuals with handicapping conditions through both lecture and practical experience. Prerequisite: PED 360. Offered spring.

PED 410. ORGANIZATION AND ADMINISTRATION 4 sh

A study of the organizational and administrative techniques needed to design and implement programs in leisure, sport and Physical Education settings, including organizational structure and theories, leadership styles, decision making, finance management, purchasing, public relations and tournament organization. Offered spring.

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PED 411. MEASUREMENT AND EVALUATION 4 sh

Students learn to organize and interpret data from tests with and without the use of software packages. Also includes the study and administration of youth and adult physical fitness tests, sports skill tests and an overview of psychosocial testing. Prerequisites: PED 125, 211. Offered fall.

PED 491. INDEPENDENT STUDY 1-4 sh

PED 499. RESEARCH IN PHYSICAL EDUCATION 1-4 sh

Physics

Chair, Department of Physics: Professor P. Das

Acting Chair: Professor F. Harris

Associate Professors: Agnew, D'Amato

Assistant Professors: Altmann, Crider, Hargrove-Leak, Kamela

Laboratory Manager: D. Thompson

Physics is the great intellectual web that underlies our understanding of the universe. Not only is a background in physics fundamental for all scientists, but it also develops a powerful set of mental tools that are invaluable in any field. Our majors pursue research into the mysteries of deep space, the subatomic world and the fascinating physics of everyday objects. They are also successful in business, engineering and a myriad of other careers thanks to the quality of mind that they develop while studying the most profound and engaging material there is — physics.

One of the great strengths of Elon's physics program is the close working relationship between faculty and students. All students are encouraged to be involved in research activities. Currently, these include a study of particle physics, the microscopic properties of crystals, simulation of mechanical and dynamical systems, the history and philosophy of science, and many other projects. The department is very interdisciplinary with experience in science pedagogy, neuroscience, computational theory, engineering, astronomy, geology and environmental studies. Majors and minors can expect a diverse and interesting range of opportunities for coursework and research both within the traditional realm of physics and across disciplinary boundaries.

Our major course of study begins with a three-semester sequence that ranges from mechanics through electricity to basic nuclear physics and particle theory. Building on this base, we offer courses in the advanced theory of electromagnetic phenomena, the mysterious world of quantum mechanics and a wide range of other topical courses, including classical mechanics, mathematical physics, circuit design, thermodynamics, field theory, statistical mechanics, etc.

The Department of Physics offers A.B., B.S., and Engineering Physics degrees as well as a minor in physics. All students interested in majoring or minoring in physics should take PHY 113 in the fall semester of their freshman year.

If you are fascinated by the mysteries of the universe and excited by observation, problem solving and creative thought, then the Department of Physics is the place for you.

A Bachelor of Arts degree in Physics requires the following courses:

PHY 113	General Physics I with Calculus	4 sh
PHY 114	General Physics II with Calculus	4 sh
PHY 213	Introduction to Modern Physics	4 sh
PHY 301	Classical Mechanics and Dynamical Systems	4 sh
PHY 311	Classical Electrodynamics	4 sh
PHY 312	Electricity, Magnetism and Field Theory	4 sh
PHY 411	Quantum Mechanics	4 sh
MTH 121	Calculus and Analytic Geometry I	4 sh
MTH 221	Calculus and Analytic Geometry II	4 sh
MTH 321	Calculus and Analytic Geometry III	4 sh

TOTAL

40 sh

A Bachelor of Science degree in Physics requires the following courses:

PHY 113	General Physics I with Calculus	4 sh
PHY 114	General Physics II with Calculus	4 sh
PHY 213	Introduction to Modern Physics	4 sh
PHY 301	Classical Mechanics and Dynamical Systems	4 sh
PHY 311	Classical Electrodynamics	4 sh
PHY 312	Electricity, Magnetism and Field Theory	4 sh
PHY 411	Quantum Mechanics	4 sh
PHY 397-8	Physic Lab-Seminars	4 sh
MTH 121	Calculus and Analytic Geometry I	4 sh
MTH 221	Calculus and Analytic Geometry II	4 sh
MTH 321	Calculus and Analytic Geometry III	4 sh
PHY 499	Research	1 sh

Eight hours electives from the following:

(one course should be taken during the spring of the sophomore year): 8 sh

PHY 211-212 Circuit Analysis/Lab

PHY 302 Statistical Mechanics and Thermodynamics

PHY 412 Relativity and Cosmology

PHY 471 Special Topics in Physics

Competence in computer programming must be demonstrated.

TOTAL 53 sh

A Bachelor of Science degree in Engineering Physics: See requirements listed under Engineering.

A minor in Physics requires the following courses:

PHY 113	General Physics I with Calculus	4 sh
PHY 114	General Physics II with Calculus	4 sh
PHY 213	Introduction to Modern Physics	4 sh
Select two Physics courses at the 300-400 level		8 sh

TOTAL 20 sh

PHY 101. CONCEPTUAL PHYSICS

4 sh

This course provides an introduction to the major ideas in both classical and modern physics. Students will be introduced to experiments of the ancient Greeks, Renaissance scholars and classical natural philosophers. The formulation of gravitational and mechanical theories, thermodynamics, the particle nature of matter and aspects of elementary electromagnetism will be included. Twentieth century perspectives including the theory of relativity, quantum mechanics and chaos will be studied. Laboratory included. Offered fall and spring.

PHY 102. INTRODUCTION TO ASTRONOMY

4 sh

Astronomy examines the nature of light, astronomical instruments and our attempts to understand the origin of our solar system and its constituents: the sun, planets, asteroids, comets and meteors. Laboratory included. Offered fall and spring.

PHY 103. INTRODUCTION TO GEOLOGY

4 sh

This geology course includes a study of the nature and origin of rocks and minerals, evolution of the landscape, plate tectonics, coastal dynamics and geologic time. Laboratory included. Offered fall and spring.

PHY 105. THE PHYSICS OF SOUND**4 sh**

This course provides an introduction to oscillations and waves with applications to sound. It examines the scientific basis for “musical sound” the production of sound in musical instruments, recording studios’ use of the properties of sound and the acoustics of concert halls. Laboratory included. Offered fall and spring.

PHY 110. ENERGY AND THE ENVIRONMENT**4 sh**

This course provides an introduction to energy concepts and the basic modes of energy production and use, focusing on environmental problems that are a consequence of such activities. Laboratory included. Offered fall and spring.

PHY 111, 112. GENERAL PHYSICS I AND II (each semester)**4 sh**

Designed for students majoring in the biological and/or health-related sciences, this survey of classical and modern physics includes mechanics, waves, heat, electricity, magnetism, optics, and atomic and nuclear physics. Labs included. Prerequisite: MTH 100 or placement exemption. Prerequisite for PHY 112: PHY 111. PHY 111 offered fall; PHY 112 offered spring.

PHY 113, 114. GENERAL PHYSICS I AND II WITH CALCULUS (each semester)**4 sh**

This survey of topics in classical physics is designed for students majoring in math, physics or chemistry or planning to transfer into an engineering program. Topics include kinematics, dynamics, thermodynamics, electrostatics, electrodynamics and waves. Labs included. Prerequisite for PHY 114: PHY 113. Corequisite: MTH 121. PHY 113 offered fall; PHY 114 offered spring.

PHY 117-118. FRESHMAN PHYSICS LAB

This one-year sequence of laboratory experiences accompanies either PHY 111, 112 or 113, 114. PHY 117 (which must be taken at the same time as PHY 111 or 113) covers mechanical systems and thermodynamics. PHY 118 (which must be taken at the same time as PHY 112 or 114) explores the world of electricity and magnetism as well as geometrical optics. PHY 117 is taught in fall; PHY 118 is taught in spring. Corequisite PHY 111, 112 or 113, 114.

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PHY 211. CIRCUIT ANALYSIS**3 sh**

This course is an introduction to the theory, analysis and design of electric circuits. Studies include circuit parameters and elements: voltage, current, power, energy, resistance, capacitance and inductance. Also included is the application of Kirchhoff’s laws to simple and complex circuits and the study of the steady-state and transient response of circuits to pulse, step and periodic inputs. Prerequisites: MTH 221 and PHY 114. Corequisite: EGR/PHY 212.

PHY 212. CIRCUIT ANALYSIS LAB**1 sh**

This course involves laboratory application of concepts and principles discussed in EGR/PHY211. Corequisite: EGR/PHY 211.

PHY 213. INTRODUCTION TO MODERN PHYSICS**4 sh**

A continuation of PHY 113 and PHY 114, this course provides further study of wave dynamics, special relativity, early quantum mechanics, wave mechanics and an introduction to solid state and nuclear physics. Laboratory included. Prerequisite: MTH 221. Offered fall.

PHY 301. CLASSICAL MECHANICS AND DYNAMICAL SYSTEMS**4 sh**

In this introduction to Lagrangian and Hamiltonian treatments of classical mechanics, students explore variational principles, conservation laws, contemporary approaches to dynamical systems and topics in chaos theory. Laboratory included. Prerequisite: PHY 114. Offered fall of alternate years.

PHY 302. STATISTICAL MECHANICS AND THERMODYNAMICS**4 sh**

This study covers statistical methods, the concept of the ensemble and statistical averages,

and explores thermodynamics using a theoretical progression from statistical analysis to thermodynamic variables. In-depth studies include conservation laws and thermodynamical variables such as entropy and free energy. Laboratory included. Prerequisite: PHY 301.

PHY 305. STELLAR ASTRONOMY

4 sh

Stellar astronomy involves study of the universe beyond the solar system, including stars, clusters, stellar evolution, variable stars, the Milky Way and other galaxies, quasars and cosmological models. Satisfies non-laboratory General Studies requirement. No credit for Physics major or minor. Prerequisite: MTH 100 or higher. Offered winter.

PHY 310. ENGINEERING THERMODYNAMICS

4 sh

Introduction to the concept of energy and the laws governing the transfers and transformations of energy. Emphasis on thermodynamic properties and First and Second Law analysis of systems and control volumes. Integration of these concepts into the analysis of basic power cycles is introduced. Prerequisites: MTH 321 and PHY 114.

PHY 311. CLASSICAL ELECTRODYNAMICS

4 sh

Classical electrodynamics involves the study of electrostatics (including image methods and electric fields in the presence of dielectric media), vector analysis, continuity conditions for field quantities at interfaces, and magnetism and magnetostatics. Laboratory included. Prerequisite: PHY 213. Offered fall.

PHY 312. ELECTRICITY, MAGNETISM AND FIELD THEORY

4 sh

This course includes Maxwell's equations and continuation of electrodynamics and explores the natural connection of field theory and electrodynamics and basic mathematical tools, including tensor analysis. By experiments and numerical simulation, students investigate electromagnetic radiation and fields. Laboratory included. Prerequisite: PHY 311. Offered spring of alternate years.

PHY 397- 398. PHYSICS LAB/SEMINAR

2 sh each

The Junior Lab/Seminar is a two-semester course in laboratory techniques at an advanced level designed for Physics and Engineering Physics majors. It will include instruction in the use of research equipment such as AFM, STM, NMR, high vacuum, LEED, Auger Spectrometer, UV/VIS Spectrophotometer, cryogenics and lock-in amplifiers. Introduction to journal research, a focused research project and a seminar presentation of results will be required. Offered fall and spring.

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PHY 411. QUANTUM MECHANICS

4 sh

Study of quantum mechanics includes basic mathematical underpinnings of quantum formalisms and treats several basic problems including Hydrogen-like atoms and lasers in depth. Laboratory included. Prerequisite: PHY 301. Offered spring of alternate years.

PHY 412. RELATIVITY AND COSMOLOGY

4 sh

This course begins by examining fundamentally electrodynamical problems out of which special relativity was born. Students read Einstein's original paper and study the classical paradoxes in depth. Discussion of cosmological problems includes black holes, galactic red shift and early universe theory. Some aspects of the general theory of relativity are also introduced. Prerequisites: PHY 311 and 312.

PHY 471. SPECIAL TOPICS IN PHYSICS

4 sh

These contemporary topics include, but are not limited to, chaos theory and nonlinear dynamics, solid state and condensed matter physics, optics, advanced quantum mechanics and particle physics. Prerequisite: permission of the instructor.

PHY 499. RESEARCH

1 sh

This semester-long supervised research project involves experimental, numerical or theoretical investigation of a single problem, culminating in a detailed report describing the methods, results and analysis performed including a publication style abstract of the research. Senior majors only. Offered fall, winter and spring.

Political Science

Chair, Department of Political Science and Public Administration: Professor C. Brumbaugh
Professors: Roselle, Taylor, Zarzar
Associate Professors: R. Anderson, Morgan, Spray
Assistant Professors: Sorensen, Vercellotti
Adjuncts: Beckman, Ciriano, Colbert, Harviel, Lambeth, Lewis, Simmons, Sink

Political Science seeks to understand the ideas, individuals and institutions engaged in making public policies that influence the lives of people in communities ranging from local to global. Courses investigate current issues and opinions, the process by which voters or leaders make decisions, the behavior of organized groups and governmental agencies, the relationships between nations and classic questions of how societies balance freedom, social justice, order and efficiency.

Students in this discipline are encouraged to develop critical reading, writing and research skills (often using computer programs); participate in role-playing simulations of local governments, legislatures, the United Nations and international relations; work as interns at the local and state level in government agencies, election campaigns and law firms; and spend a semester in Washington, D.C., working in executive and judicial agencies, the U.S. Congress, interest groups and international organizations.

The department offers majors in Political Science and Public Administration as well as minors in these fields. Students can concentrate their coursework in one or more subfields: American government, international relations, comparative politics, public administration, law and political theory. These programs help prepare students to enter graduate and law school, and pursue a wide range of careers in legislative, executive and judicial agencies; business; teaching; journalism; interest group advocacy; campaign management and international public service.

A major in Political Science requires the following courses:

POL 111	American Government	4 sh
POL 220	Research Methods in Political Science	4 sh
POL 461	Senior Seminar in Political Science	4 sh
One course chosen from the following:		4 sh
POL 141	International Relations	
POL 261	Comparative Politics	
One course selected from the following:		4 sh
POL 300	Introduction to Political Thought	
POL 303	Democratic Theory	
POL 304	Theorists of Non-Violence	
Twenty-four additional hours in Political Science		24 sh
TOTAL		44 sh

It is strongly recommended that Political Science majors, in consultation with their advisors, select a subfield or topical concentration of at least 12 semester hours at the 300-level and above. Subfield and concentration courses will be chosen from among the 24 elective hours. With the approval of the student's advisor, up to four hours from outside the Political Science and Public Administration department may be applied toward the concentration. No more than eight internship hours may be applied to the major.

A minor in Political Science requires the following:

POL 111 American Government 4 sh

Sixteen semester hours in Political Science 16 sh

TOTAL **20 sh**

POL 111. AMERICAN GOVERNMENT **4 sh**

American Government serves as an introduction to the national political system including the legislative, executive and judicial branches; the Constitution; political parties; interest groups; public opinion and public policy issues. Offered fall and spring.

POL 112. NORTH CAROLINA STUDENT LEGISLATURE **1 sh**

This is an experiential course which promotes active participation in the NCSL, debate of public issues and organizational involvement at the university and state-wide level. Offered fall and spring.

POL 114. MODEL UNITED NATIONS **1 sh**

Through experiential learning activities, students gain insight into the workings of the United Nations, diplomacy and international politics. Offered fall and spring.

POL 116. LOCAL GOVERNMENT SIMULATION **4 sh**

This course examines the structure and functioning of local governments and applies that understanding in a simulation of local government issues in which students assume the roles of city council members, planning commission members, organizational leaders, business owners, citizen groups and the media. Offered winter.

POL 141. INTERNATIONAL RELATIONS **4 sh**

This course gives students a basic appreciation for our world and examines political issues such as the role of power and international law in the international system and economic, social and cultural features of the world. Offered fall and spring.

POL 220. RESEARCH METHODS IN POLITICAL SCIENCE **4 sh**

This course introduces methodologies used in political science research. It focuses on concept formation, research design for problem solving and the measurement of data and data analysis. Political Science and Public Administration majors should take this course in their sophomore year. Offered fall and spring.

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POL 222. STATE AND LOCAL GOVERNMENT AND POLITICS **4 sh**

This course focuses on the structure and functioning of the state and local government and their roles within the American federal system. Offered fall and spring.

POL 224. ENVIRONMENTAL POLICY AND LAW **4 sh**

This course focuses on the policy processes and institutional settings for environmental policy formation and governmental action. It deals with the role of the courts, Congress and federal agencies in the development, implementation and evaluation of environmental policy. Offered spring.

POL 231. PUBLIC ADMINISTRATION **4 sh**

This course introduces the student to the complexities of administering government activities and emphasizes the basic principles of organizations, decision making, fiscal management, personnel management and other forms of action in the public sector. (Cross-listed with PUB 231.) Offered fall and spring.

POL 261. COMPARATIVE POLITICS **4 sh**

This introduction to the central concepts of comparative politics and to the major types of contemporary political systems may include Britain, Germany, Japan, Nigeria, China, Mexico and the post-Soviet independent states of Eurasia. Offered spring.

POL 300. INTRODUCTION TO POLITICAL THOUGHT

4 sh

In a critical introduction to the great political thinkers, discussion spans from Plato to Rousseau. Offered every third semester.

POL 303. DEMOCRATIC THEORY

4 sh

This course examines conceptions, models and themes of democracy around the world using a comparative approach with special emphasis on models of democracy as they developed in the U.S. Offered every third semester.

POL 304. THEORISTS OF NON-VIOLENCE

4 sh

Non-violent alternatives to violence in resolving interpersonal and intergroup conflicts will be explored in light of the various Eastern and Western moral and religious traditions and the thought of such thinkers as Mahatma Gandhi, Martin Luther King, Jr. and others. Offered every third semester.

POL 321. PUBLIC OPINION POLLING

4 sh

The goal of this course is for students to learn how to supervise a public opinion poll and apply survey research theory to the Elon Poll. Students participate as interviewers in several polls and learn survey design, computer programming, analysis of poll data and how to write about survey results. Offered fall.

POL 322. NORTH CAROLINA POLITICS AND POLICY

4 sh

This course examines North Carolina's politics and public policy development from a broad historical perspective, analyzes how state government formulates and administers legislation and explores contemporary policy issues facing the state.

POL 323. CONSTITUTIONAL LAW

2 sh

Using a case study approach, this course focuses on American Constitutional structures: separation of powers, judicial review and federalism.

POL 324. CIVIL LIBERTIES

2 sh

The focus of this course is on individual rights guaranteed by the Bill of Rights.

POL 325. THE PRESIDENCY

4 sh

A study of the contemporary presidency emphasizing the organization of the office, its relationship to other structures in American politics and its role in the policy-making process. Offered every other year.

POL 326. THE CONGRESS

4 sh

Topics of study cover the policy-making process in Congress, focusing on party leadership, the committee system and the relationship between the Congress and the presidency, interest groups and the executive branch. Discussion also includes congressional reform proposals. Offered every other year.

POL 328. PUBLIC POLICY

4 sh

This study of public policy-making emphasizes policy content and focuses on the stages and options in the process, especially the complex relationships between the branches and levels of government within the structure of federalism. Students trace the development of selected public policy positions and focus on options available to contemporary decision makers. (Cross-listed with PUB 328.) Offered fall.

POL 329. POLITICAL BEHAVIOR

4 sh

This course focuses on political life from a micro-perspective by examining how political attitudes and behaviors are learned and how they affect our political choices, especially in regard to political socialization and electoral behavior. Offered every other year.

POL 334. GIS APPLICATIONS FOR ADMINISTRATION AND PLANNING

4 sh

Geographic Information Systems (GIS) is an indispensable tool in public policy research, analysis and implementation. Students will develop expertise in the use of GIS

software through the use of case studies, specific research projects and practical applications of this new technology in both the public and nonprofit sectors. (Cross-listed with PUB 334.) Offered every other year.

POL 335. ETHICS IN THE PUBLIC SECTOR 4 sh

The course seeks to develop awareness of the responsibilities associated with discretionary power; to develop an understanding of the ethical standards, values and virtues associated with civil service; and to build skills in using moral imagination and ethical reasoning to assess and deal effectively with ethical dilemmas that arise in public service. (Cross-listed with PUB 335.) Offered fall.

POL 342. U.S. FOREIGN POLICY 4 sh

This course covers the foreign relations, foreign policy process and international politics of the United States. Offered every other year.

POL 343. INTERNATIONAL LAW AND ORGANIZATIONS 4 sh

This course focuses on the role of international law and organizations in determining patterns of international behavior with special attention to the United Nations. Offered every other year.

POL 344. INTERNATIONAL ENVIRONMENTAL POLICY 4 sh

This course addresses environmental issues that cross national boundaries, such as global warming, natural resource scarcity, waste disposal and issues of international trade and the environment. It is useful for students of International Studies and Environmental Studies as well as Political Science.

POL 345. INTERNATIONAL TERRORISM 4 sh

This course examines the genesis, typology and impact of international terrorism on nation states and the international community. It also explores the variety of approaches used, especially by the United States, to deal with international terrorism. Offered fall and spring.

POL 359. POLITICAL COMMUNICATIONS 4 sh

This examination of political communications processes uses a comparative perspective and emphasizes the role of media in the U.S., Europe, Eurasia and developing countries.

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POL 363. POLITICS OF ASIA 4 sh

This exploration of the politics of Asia after World War II analyzes political and economic processes in the cases of Japan, China and newly industrializing countries.

POL 364. POLITICS OF EUROPE 4 sh

This course explores the politics of Eastern and Western Europe since World War I.

POL 365. POLITICS OF EURASIA 4 sh

This course analyzes the rise and fall of the Soviet Union as a political entity and studies the newly independent countries of the former Soviet Union in some depth.

POL 366. MIDDLE EAST POLITICS 4 sh

This course studies Middle Eastern political dynamics and institutions, contemporary issues and problems of selected Middle Eastern and North African countries.

POL 367. POLITICS OF AFRICA 4 sh

This course focuses on nation building and major factors influencing contemporary politics in selected African states. It emphasizes the legacy of colonialism/independence struggles, traditional loyalties, the political/social/economic origins of conflict/coalitions/coups, political participation, institutionalization/control, the destabilizing influences of class/ethnic/elitist/racial differences and African states in the world order.

POL 368. LATIN AMERICAN POLITICS

4 sh

Central America and Mexico receive emphasis in this study of the political dynamics, governmental structures and contemporary issues of selected countries of Latin America.

POL 375. POLITICAL SCIENCE IN LONDON

4 sh

POL 376. WASHINGTON CENTER SEMINAR

1-4 sh

Students learn first hand from speakers, on-site visits and other experiential opportunities in Washington, D.C., and other locations through the Washington Center. Course requirements include readings, writing assignments and collaborative work dealing with a wide variety of topics. Prerequisite: permission of department. Offered every semester.

POL 382. CAMPAIGN MANAGEMENT

4 sh

This course provides a practical study of how to run an election campaign with attention to setting up, staffing and financing a campaign office, organizing events, media relations, campaign technology, polling, advertising and getting out the vote. Students spend significant time as an intern for a candidate of their choice and reflect on their experience. Offered fall of even-numbered years.

POL 428. COMPARATIVE PUBLIC POLICY

4 sh

Focusing primarily on various countries in Europe and Eurasia, with comparisons to the United States, this course examines the differences in the formation and implementation of a variety of public policies. It also explores differences in political culture, economic structure, political institutions and national approaches to domestic social policies and how those differences impact the policy process and policy content. (Cross-listed with PUB 428.) Offered every other year.

POL 431. POLICY ANALYSIS AND PROGRAM EVALUATION

4 sh

Two aspects of the public policy process are covered in this course. Policy analysis focuses on the formulation stage of the policy process and attempts to isolate both the intended and many unintended effects of public policy. Program evaluation determines the degree to which a program is meeting its objectives and considers problems and side effects. Prerequisite: POL 111 or permission of instructor. (Cross-listed with PUB 431.) Offered spring.

POL 433. URBAN POLITICS

4 sh

Advanced study in areas of the Urban Politics field centers on varying topics to be decided by the instructor. Selections might include urban management, urban public policy, urban problems, etc. Prerequisite: POL 222 or permission of instructor. (Cross-listed with PUB 433.)

POL 461. SENIOR SEMINAR IN POLITICAL SCIENCE

4 sh

The capstone experience for senior Political Science majors involves close review of the discipline's conceptual approaches to the study of political issues, discussion and development of research strategies. Students must also present a work of original scholarship. Prerequisite: senior majors only. Offered fall and spring.

POL 481. INTERNSHIP IN POLITICAL SCIENCE

1-16 sh

Work experience in a partisan, nonprofit, business, governmental or legal setting requires students to establish experiential goals and to reflect on the learning experience. Offered on an individual basis when suitable opportunities can be arranged.

POL 485. WASHINGTON INTERNSHIP IN POLITICAL SCIENCE

1-12 sh

Work experience in a partisan, nonprofit, business, governmental or legal setting in the Washington, D.C., area, requires students to establish experiential goals and reflect on the learning experience. Offered on an individual basis when suitable opportunities can be arranged.

POL 491. INDEPENDENT STUDY 1-4 sh

POL 492. TOPICS IN POLITICAL SCIENCE 4 sh

This advanced course explores significant contemporary issues or developments within the discipline. Prerequisite: POL 111 or permission of the instructor.

POL 499. RESEARCH 1-4 sh

This course is an opportunity for students to undertake an empirical or theoretical study of a topic in Political Science in collaboration with a departmental faculty member. Research projects may include a review of research literature, developing a research design, data collection and analysis, and a presentation or report when the study is completed. Prerequisite: permission of instructor. A research proposal form completed by the student in conjunction with the faculty member is required for registration. Students may register for one-four hours of credit per semester and may register for more than one semester of research for a total of eight hours of research credit toward the major. Students must have a minimum 2.5 GPA and have completed 28 semester hours of undergraduate work.

Professional Writing Studies

Coordinator: Lecturer Strickland, Director of Writing Across the Curriculum*

Professional Writing Studies is an interdisciplinary minor designed for students across the disciplines who would like to add to their majors focused study and practice in applied writing. This minor is intended not only to strengthen the writing instruction offered to students across the disciplines, but also to responsibly prepare students for the steadily increasing numbers of specialized professional, technical and medical writing positions in government agencies, industry and nonprofit organizations.

The minor is broad and flexible enough that students can formulate course sequences appealing to their specific interests. It is also structured tightly enough to effectively guide students' curricular decisions.

A required introductory course prepares students to see writing broadly as a complex, highly situated form of social action and production. Three required practice courses engage students in hands-on projects where they learn to apply advanced practical writing skills within specific contexts. Finally a variety of internship experiences are possible in which students have a chance to practice what they have learned in actual disciplinary or professional contexts.

The minor requires a minimum of 20 semester hours. Practice/applied courses must be chosen from at least two disciplines.

A minor in Professional Writing Studies requires the following:

ENG 204 Survey of Professional Writing and Rhetoric 4 sh

Twelve semester hours chosen from the following practice/applied courses; courses must be chosen from at least two disciplines: 12 sh

ART 263 Digital Art I

ART 363 Digital Art II

BUS 202 Business Communications

ENG 211 Style and Editing

ENG 212 Writing, Rhetoric and Interface Design

ENG 219 Writing Studies Survey

ENG 304	Understanding Rhetoric	
ENG 311	Document Research, Management and Production	
ENG 312	Visual Rhetoric and Document Design	
ENG 318	Technical and Scientific Writing	
ENG 319	Writing Center Workshop	
ENG 397	Writing as Inquiry	
ENG 411	Advanced Topics in Professional Writing and Rhetoric	
HUS 412	Professional Communication	
JCM 304	Public Relations and Corporate Citizenship	
JCM 327	Corporate Publishing and Writing	
JCM 338	Magazine Publishing	
JCM 364	Web Publishing and Design	
Four semester hours from one disciplinary internship course (The course must be carefully designed as a professional writing internship and approved by the Director of Writing Across the Curriculum. Most ENG 381 or -481 courses can be designed for this purpose and approved.)		4 sh

TOTAL	20 sh
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*Note: The minor is jointly administered by the English department and the Interdisciplinary Writing Committee, chaired by the director of Writing Across the Curriculum, who also serves as the minor's coordinator. All questions should be referred to the coordinator.

Psychology

Chair, Department of Psychology: Associate Professor King
Professors: Granowsky, Green
Associate Professors: Fromson, Levesque, McClearn, Pickens, Smith, Vandermaas-Peeler
Assistant Professors: Gendle, Leupold

The psychology major at Elon University presents the principles, methods and research findings of the field of psychology. Students in the major learn and practice sound research methods and are given many opportunities for exploring the breadth of the content areas in psychology. In each psychology course, students are involved in writing and speaking in the discipline. Interested students may engage in a variety of applied internship experiences and/or collaborative research with departmental faculty.

Students with a bachelor's degree in psychology have many career options. Some students enter fields such as law enforcement, court counseling, daycare, group home counseling, YMCA program work, personnel and entry level positions in mental health. Others opt to go on to graduate school in a variety of programs including clinical, counseling or school psychology, social work, special education, law and many others. Psychology majors receive both a liberal arts education and practice in the skills of research, professional writing and speaking and are therefore prepared for a variety of careers.

A major in Psychology requires the following courses:

PSY 111	General Psychology	4 sh
PSY 201	Research Methods and Statistics in Psychology	4 sh
PSY 301	Empirical Research	4 sh
PSY 461	Senior Seminar	4 sh

Two courses chosen from the following:	8 sh
PSY 212 Learning and Memory	
PSY 221 Biological Bases of Behavior	
PSY 233 Lifespan Human Development	
Two courses chosen from the following:	8 sh
PSY 312 Cognitive Psychology	
PSY 323 Social Psychology	
PSY 343 Psychology of Personality and Individual Differences	
Twelve additional semester hours in Psychology	12 sh
TOTAL	44 sh

A minor in Psychology requires the following courses:

PSY 111 General Psychology	4 sh
One course from the following:	4 sh
PSY 212 Learning and Memory	
PSY 221 Biological Bases of Behavior	
PSY 233 Lifespan Human Development	
One course from the following:	4 sh
PSY 321 Educational Psychology	
PSY 333 Abnormal Behavior	
PSY 356 Health Psychology	
PSY 363 Industrial and Organizational Psychology	
Eight semester hours from Psychology courses	8 sh
TOTAL	20 sh

PSY 111. GENERAL PSYCHOLOGY 4 sh

General psychology surveys central topics in the field, including research methodology, learning and memory processes, social psychology, psychological disorders and personality. Offered fall and spring.

PSY 201. RESEARCH METHODS AND STATISTICS IN PSYCHOLOGY 4 sh

Students learn how to design, review and analyze psychological research. The course focuses on developing research questions, answering them using research designs and complementary data analysis techniques, and the basics of writing research reports. Prerequisites: PSY 111; MTH 112; psychology major status. Offered fall and spring.

PSY 212. LEARNING AND MEMORY 4 sh

This course addresses models of knowledge acquisition (including classical and operant conditioning and cognitive processes), encoding and storage of information, memory retrieval and forgetting. Prerequisite: PSY 111. Offered fall or spring.

PSY 215. THE PSYCHOLOGY OF PERSONAL RELATIONSHIPS 4 sh

The purpose of this course is to investigate personal relationships from various viewpoints of psychology (e.g., social, cognitive and biopsychological). Interactions with family members and friends will be discussed, but the emphasis will be placed on the initiation, maintenance and termination of romantic relationships.

PSY 221. BIOLOGICAL BASES OF BEHAVIOR 4 sh

This course explores the biological foundations of such psychological processes as learning and memory, movement, sleep and emotions, as well as such abnormal conditions as schizophrenia and depression. Prerequisite: PSY 111. Offered fall or spring.

PSY 225. MENTAL ILLNESS AND FILM**4 sh**

Hollywood depictions of mental illness have contributed significantly to the ideas and images many individuals hold about mental illness. Students will look at some of the major types of mental illnesses (e.g., depression, sexual disorders, schizophrenia, antisocial personality disorder) and examine how they have been portrayed, for better and worse, in popular films.

PSY 233. LIFESPAN HUMAN DEVELOPMENT**4 sh**

An exploration of human development across the entire lifespan includes consideration of cognitive, social and emotional development as a complex interaction between individuals and their social and cultural environments. Prerequisite: PSY 111. Offered fall or spring.

PSY 301. EMPIRICAL RESEARCH**4 sh**

Students become familiar with the major theoretical and empirical foundations of one topic area of psychology (e.g., interpersonal attraction, memory processes, cognitive development, health psychology, organizational performance). Working in research teams under faculty direction, students devise, implement and report an original empirical investigation of a question related to the selected area of concern. Prerequisites: PSY 201; psychology major status. Offered fall and spring.

PSY 312. COGNITIVE PSYCHOLOGY**4 sh**

Cognitive psychology studies how humans represent and process information about the environment in their role as thinkers, planners, language users and problem solvers. Prerequisites: PSY 111, 201. Offered fall or spring.

PSY 315. PSYCHOLOGY OF SEX AND GENDER**4 sh**

This course focuses on the psychology of sex and gender from a feminist perspective and is organized around four themes: gender as a social construction, the importance of language and the power to name, class and cultural diversity, and knowledge as a source of social change.

PSY 321. EDUCATIONAL PSYCHOLOGY**4 sh**

Students gain an overview of research and theory in educational psychology and explore their applications in teaching and learning. Prerequisite: PSY 111 or EDU 211. Offered fall and spring.

PSY 323. SOCIAL PSYCHOLOGY**4 sh**

Topics in social psychology explore how people think about, influence and relate to one another including affiliation, aggression, altruism, attitude formation and change, attribution, compliance, conformity and persuasion. Prerequisites: PSY 111, 201. Offered fall or spring.

PSY 325. THE PSYCHOLOGY OF AMERICAN PROTEST MUSIC**4 sh**

This course is a study of the psychological impact of music used to promote social change. By necessity, this study utilizes a variety of perspectives in addition to psychological ones, including historical, socio-political and musicological. Movements covered include early labor organizations, civil rights and antiwar. Prerequisite: PSY 111.

PSY 327. THE PSYCHOLOGY OF NONVIOLENCE**4 sh**

This course is a study of the variety of means for resolving conflict, with a focus on nonviolent alternatives. Our emphasis is on the psychological impact of conflict and the means of its resolution. Topics include the impact of fear in conflict situations, psychological obstacles to resolution, Gandhian philosophy and the education of children in conflict resolution. Prerequisite: PSY 111 or permission of instructor.

PSY 331. PSYCHOLOGICAL TESTING**4 sh**

This course addresses issues connected with measuring psychological constructs such as intelligence, personality and vocational interest. Among these are the variety of tech-

niques for assessing people's characteristics, attitudes and performance in reliable and valid ways and how this information gets used in making decisions about people's lives. In addition to basic assessment principles, first-hand experience with several psychological tests will be provided. Prerequisites: PSY 111, and one of the following: PSY 201, ECO 202, MTH 112, MTH 210, HUS 285, POL 220, SOC 216.

PSY 332. PSYCHOLOGY OF EXCEPTIONALITY

4 sh

Students learn the measures and procedures used to evaluate exceptional children and techniques for educational intervention and remediation as they study the origins, symptoms and characteristics of exceptional children. Study covers those children who are emotionally, physically or mentally disabled, as well as those who are gifted and talented. Prerequisite: PSY 111.

PSY 333. ABNORMAL BEHAVIOR

4 sh

In this overview of major psychological disturbances (anxiety, mood, personality, sexual and schizophrenic disorders), students examine the role of different theories, diagnostic tests and procedures in understanding illness and learn the basics of therapeutic interventions. Prerequisite: PSY 111.

PSY 343. PSYCHOLOGY OF PERSONALITY AND INDIVIDUAL DIFFERENCES

4 sh

This course covers major modern perspectives in personality psychology including dispositional, biological, psychodynamic, self and social-cognitive theories. Students are also introduced to issues and techniques of personality testing and assessment. Prerequisites: PSY 111, 201. Offered fall or spring.

PSY 355. HUMAN PERCEPTION

4 sh

Study in human perception includes research and theory on the structural and functional characteristics of various perceptual systems, on perceptual phenomena such as depth and color perception and on other related topics. Prerequisite: PSY 111.

PSY 356. HEALTH PSYCHOLOGY

4 sh

This course focuses upon the role of psychology in a variety of medical issues: health-enhancing and health-compromising behaviors, stress and illness, patient-practitioner relationships, pain and other chronic conditions. The growing field of health psychology is explored as both an area of research and a clinical profession. Prerequisite: PSY 111.

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PSY 357. CRIMINAL BEHAVIOR

4 sh

This course focuses primarily on the causes of crime, the criminal mind and the resulting social and personal costs of crime. Also addressed are various aspects of the criminal justice system, including the relevance of psychology to courtroom proceedings. Although many types of crime are explored, emphasis is placed on violent crime.

PSY 361. ANIMAL BEHAVIOR

4 sh

An investigation of animal behavior takes into account physiology, development, evolution and adaptation. Studies emphasize specialized structures and abilities which may or may not be present in humans and which confer selective advantages upon their possessors. Prerequisite: PSY 111.

PSY 363. INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY

4 sh

Psychological applications in the workplace are the focus of this course. Topics include personnel selection, leadership and motivation, job satisfaction and work performance. Prerequisite: PSY 111.

PSY 366. PSYCHOLOGY IN CULTURAL CONTEXT

4 sh

Issues in the related fields of cultural and cross-cultural psychology are considered in depth as students investigate basic psychological processes (e.g., motivation, cognition and emotion) in the context of how cultural world views and implicit value assumptions influence the development and functioning of human behavior and social interaction. Prerequisite: PSY 111.

PSY 371. SPECIAL TOPICS IN PSYCHOLOGY 4 sh

PSY 461. SENIOR SEMINAR 4 sh

In this capstone course, students will read primary sources (i.e., original articles) and identify and critically evaluate theoretical issues and empirical findings in the field. With faculty supervision, students will develop and present (in both written and oral formats) a thesis-level integrative literature review manuscript. Prerequisites: PSY 301 and senior status in the major. Offered fall and spring.

PSY 481. INTERNSHIP IN PSYCHOLOGY 1-4 sh

Upper-level majors apply psychological theories and techniques to actual experiences in the field. Maximum four semester hours toward major. Prerequisite: majors with faculty approval.

PSY 491. INDEPENDENT STUDY 1-4 sh

Prerequisites: junior/senior status and permission of the instructor.

PSY 499. RESEARCH 1-4 sh

In collaboration with a psychology faculty member, students undertake an empirical or theoretical study of a topic in psychology. Research projects may include a review of the relevant research literature, data collection and analysis, and a presentation or report when the study is completed. Prerequisites: PSY 111, 201 and permission of instructor. A completed research proposal form completed by the student in conjunction with the faculty member is required for registration. Students may register for one to four hours of credit per semester and may register for more than one semester of research for a total of eight hours of research credit toward the major. Offered fall, winter and spring.

Public Administration

Chair, Department of Political Science and Public Administration: Professor C. Brumbaugh

Professors: Roselle, Taylor, Zarzar

Associate Professors: Anderson, Morgan, Spray

Assistant Professors: Sorensen, Vercellotti

Adjuncts: Colbert, Lewis

The Public Administration major prepares students interested in pursuing graduate education and careers in governmental or nonprofit service agencies. Courses in the major include the study of the management functions in public agencies, governmental structures and processes, techniques used in the evaluation process and a variety of public policies. Field experiences including internships and course-linked service learning are emphasized within the major. Students develop technical competencies and theoretical understandings from courses relevant to public administration and from other disciplines as well.

A major in Public Administration requires the following courses:

PUB 231	Public Administration	4 sh
PUB 328	Public Policy	4 sh
PUB 335	Ethics in the Public Sector	4 sh
PUB 431	Policy Analysis and Program Evaluation	4 sh
PUB 461	Seminar in Public Administration	4 sh
POL 111	American Government	4 sh
POL 220	Research Methods in Political Science	4 sh
POL 222	State and Local Government and Politics	4 sh

Twelve hours selected from the following courses: 12 sh

ACC 201	Principles of Financial Accounting
BUS 303	Introduction to Managing
ECO 201	Principles of Economics
POL 325	The Presidency
POL 326	The Congress
POL 382	Campaign Management
PUB 334	GIS Applications for Administration and Planning
PUB 428	Comparative Public Policy
PUB 433	Urban Politics

Any Public Administration course 4 sh

TOTAL 48 sh

It is strongly recommended that Public Administration majors, in consultation with their advisors, select a topical concentration of at least 12 semester hours at the 300-level and above. Concentration courses will be chosen from among the 16 elective hours. With the approval of the student's advisor, up to four hours from outside the Political Science and Public Administration department may be applied toward the concentration. No more than eight internship hours may be applied to the major. Students considering graduate school in Public Administration should take additional courses in Accounting, Economics and Business Administration.

A minor in Public Administration requires the following courses:

POL 111	American Government	4 sh
PUB 231	Public Administration	4 sh
Twelve semester hours in Public Administration courses		12 sh

TOTAL 20 sh

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PUB 231. PUBLIC ADMINISTRATION 4 sh

This course introduces the student to the complexities of administering government activities and emphasizes the basic principles of organizations, decision making, fiscal management, personnel management and other forms of action in the public sector. Offered fall and spring.

PUB 328. PUBLIC POLICY 4 sh

This study of public policy making emphasizes policy content and focuses on the stages and options in the process, especially the complex relationships between the branches and levels of government within the structure of federalism. Students trace the development of selected public policy positions and focus on options available to contemporary decision makers. Offered fall.

PUB 334. GIS APPLICATIONS FOR ADMINISTRATION AND PLANNING 4 sh

Geographic Information Systems (GIS) is an indispensable tool in public policy research, analysis and implementation. Students will develop expertise in the use of GIS software through the use of case studies, specific research projects and practical applications of this new technology in both the public and nonprofit sectors. Offered every other year.

PUB 335. ETHICS IN THE PUBLIC SECTOR 4 sh

The course seeks to develop awareness of the responsibilities associated with discretionary power; to develop an understanding of the ethical standards, values and virtues associated with civil service; and to build skills in using moral imagination and ethical reasoning to assess and deal effectively with ethical dilemmas that arise in public service. Offered fall.

PUB 428. COMPARATIVE PUBLIC POLICY**4 sh**

Focusing primarily on various countries in Europe and Eurasia, with comparisons to the United States, this course examines the differences in the formation and implementation of a variety of public policies. It also explores differences in political culture, economic structure, political institutions and national approaches to domestic social policies, and how those differences impact the policy process and policy content. Offered every other year.

PUB 431. POLICY ANALYSIS AND PROGRAM EVALUATION**4 sh**

Two aspects of the public policy process are covered in this course. Policy analysis focuses on the formulation stage of the policy process and attempts to isolate both the intended and many unintended effects of public policy. Program evaluation determines the degree to which a program is meeting its objectives and considers problems and side effects. Prerequisite: POL 220 or permission of instructor. Offered spring.

PUB 433. URBAN POLITICS**4 sh**

Advanced study in areas of the urban politics field centers on varying topics to be decided by the instructor. Selections might include urban management, urban public policy, urban problems, etc. Prerequisite: POL 222 or permission of instructor.

PUB 461. SEMINAR IN PUBLIC ADMINISTRATION**4 sh**

The capstone experience for senior Public Administration majors involves review of the discipline's conceptual approaches and discussion and development of research strategies. Students must present a work of original scholarship. Prerequisite: senior majors only. Offered fall.

PUB 481. INTERNSHIP IN PUBLIC ADMINISTRATION**1-16 sh**

Work experience in a nonprofit, business, governmental or legal setting requires students to establish experiential goals and to reflect on the learning experience. Offered on an individual basis when suitable opportunities can be arranged.

PUB 485. WASHINGTON INTERNSHIP IN PUBLIC ADMINISTRATION**1-12 sh**

Work experience in a partisan, nonprofit, business, governmental or legal setting in the Washington, D.C. area, requires students to establish experiential goals and reflect on the learning experience. Offered on an individual basis when suitable opportunities can be arranged.

PUB 491. INDEPENDENT STUDY**1-4 sh****PUB 499. RESEARCH****1-4 sh**

This course is an opportunity for students to undertake an empirical or theoretical study of a topic in public administration in collaboration with a departmental faculty member. Research projects may include a review of research literature, developing a research design, data collection and analysis, and a presentation or report when the study is completed. Prerequisite: permission of instructor. A research proposal form completed by the student in conjunction with the faculty member is required for registration. Students may register for one to four hours of credit per semester and may register for more than one semester of research for a total of eight hours of research credit toward the major. Students must have a minimum 2.5 GPA and have completed 28 semester hours of undergraduate work.

Religious Studies

Chair, Department of Religious Studies: Professor Pugh

Professor: Pace

Associate Professor: Chakrabarti

Assistant Professors: Hammer, Huber, McBride, Peters

Lecturer: L. Russell

Religious Studies courses and the Religious Studies major and minor are designed to help students learn about one of the most basic and universal aspects of human existence. Knowing about religion helps us to better understand ourselves and the beliefs of others.

The members of the Religious Studies faculty seek to foster in students a love of learning, informed values and a spirit of tolerance. In keeping with Elon's liberal arts objectives, the program and the faculty also seek to develop the students' ability to think critically and communicate effectively, both in the discipline and in other areas of life.

A major in Religious Studies requires the following courses:

REL 101	Introduction to Religious Studies	4 sh or
REL 102	World Religions	4 sh
REL 111	The Old Testament Story	4 sh or
REL 112	Introduction to the New Testament	4 sh
REL 292	Approaches to the Study of Religion	4 sh
REL 492	Senior Seminar	4 sh
An additional six courses, at least five at the 300-400 level		24 sh

Greek 310 may be substituted for a Religious Studies course.

Total	40 sh
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A minor in Religious Studies requires the following courses:

REL 101	Introduction to Religious Studies	4 sh or
REL 102	World Religions	
REL 111	The Old Testament Story	4 sh or
REL 112	Introduction to the New Testament	
REL 292	Approaches to the Study of Religion	4 sh
An additional two courses in Religious Studies		8 sh

Total	20 sh
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REL 101. INTRODUCTION TO RELIGIOUS STUDIES 4 sh

This course considers the human religious experience and its impact throughout history and in the contemporary world.

REL 102. WORLD RELIGIONS 4 sh

The origin, historical development and beliefs of selected religious traditions are the focus of this course.

REL 111. THE OLD TESTAMENT STORY 4 sh

This course introduces students to the Hebrew Scriptures so that they may understand the beliefs expressed in it, evaluate its relevance to their lives today and be able to recognize its impact on our literature, language, music, art and sculpture, both past and present.

REL 112. INTRODUCTION TO THE NEW TESTAMENT 4 sh

This course studies the rise and development of Christianity and its literature.

- REL 181. INTERNSHIP IN RELIGIOUS STUDIES** 1 sh
An optional internship may occasionally be offered in conjunction with REL 101, Introduction to Religious Studies.
- REL 251. RELIGIOUS STUDIES ABROAD** 4 sh
Religious Studies experiences are offered in England, India and/or the Middle East (Israel, Egypt and Jordan). Winter Term only.
- REL 292. APPROACHES TO THE STUDY OF RELIGION** 4 sh
This course is to orient students interested in religious studies to the broader landscape of the field. In the process, students will be challenged to examine and compare a variety of methodological approaches to the study of religion. This course will also train students in advanced research and writing in the field. Prerequisite: REL 101 or 102 and REL 111 or 112. Offered spring.
- REL 321. UNEARTHING THE BIBLE** 4 sh
This study surveys major archaeological research as it relates to our understanding of the Bible and its setting.
- REL 322. OLD TESTAMENT PROPHETS** 4 sh
The background, personal characteristics, function, message and present significance of the Hebrew prophets is the focus of this course.
- REL 324. WHEN BAD THINGS HAPPEN TO GOOD PEOPLE** 4 sh
Study of the Old Testament Book of Job includes its contents, literary structure, impact on modern literature and drama, and its message about senseless tragedy for today's world.
- REL 325. REVELATION AND OTHER APOCALYPTIC LITERATURE** 4 sh
The course examines the origins of apocalyptic thought in early Jewish and Christian history. While half of the course is a very close and detailed reading of Revelation, some Old Testament and intertestamental apocalyptic literature is also read.
- REL 326. LIFE AND THOUGHT OF PAUL** 4 sh
This study analyzes major motifs of Paul's theology by interpreting his New Testament writings.
- REL 327. LOST BOOKS OF THE BIBLE** 4 sh
This course examines early Jewish and early Christian writings that were at some point considered scripture by various Jewish and Christian groups, but were not included when the Bible was finally put together. Many of these writings were lost for centuries and only rediscovered in the 19th and 20th centuries.
- REL 329. JESUS AND THE GOSPELS** 4 sh
The course is a close reading and comparison of Matthew, Mark and Luke in parallel columns, along with the noncanonical Gospel of Thomas. John will be read separately toward the end of the course.
- REL 335. CHRISTIANITY: ANCIENT AND MEDIEVAL** 4 sh
This course examines the history and thought of the various forms of Christianity from the apostolic age (late first century) to the eve of the Protestant Reformation (early 16th century). Offered fall.
- REL 336. CHRISTIANITY: REFORMATION TO THE PRESENT** 4 sh
This course will cover extensively the Reformation period, Enlightenment and the context of Christianity from 1500 to the present. Attention will be given to theologians, ideas and theologies, global contexts and the impact of Christianity on global history.
- REL 337. THEOLOGICAL EXPLORATIONS: GOD AND THE SEARCH FOR MEANING** 4 sh
This course is designed to expose students to extensive discussions that are taking place

in the global community concerning humankind's relationship to the sacred. From the rise of religious violence to fundamentalism and issues such as language, theodicy post-modernity and the social construction of religion, students will explore the field of theology and the human search for meaning.

REL 338. SEARCHING FOR THE SACRED: CONTEMPORARY THEOLOGIANS 4 sh

This course will focus upon persons who have influenced the course of theology in the past half century, ranging from Dietrich Bonhoeffer and Karl Barth to Dorothe Sollee. The theologians' lives will be studied as pilgrimages in order to help students better understand the ways in which life's journeys are expressed in our thinking.

REL 339. GOD AND POLITICS 4 sh

This class is designed to explore the connection between political and religious communities. Some of the topics covered are the role of fundamentalism and its contemporary impact, the nature of historical consciousness and the mythic narratives it creates, and the separation of church and state. While rooted in American culture, this class will take a global perspective in order to understand such things as religious violence and the absolutist claims of some religious communities. Prerequisites: None. Offered fall.

REL 342. SEXUALITY AND THE SOCIAL ORDER 4 sh

This course examines a variety of ethical arguments and debates regarding sexual behavior and expression. Attention will be paid to the ways in which sexuality is socially constructed. Emphasis is placed on learning how to critically analyze and evaluate Christian ethical argumentation. Prerequisites: None. Offered spring.

REL 343. WOMEN, VIOLENCE AND RESISTANCE 4 sh

This course takes a serious look at a wide variety of forms of violence against women. Topics include domestic violence, prostitution, gang rape, economic violence, military violence, cultural violence and incest. Particular attention will be paid to religious justifications for violence against women; and the role that faith communities have played in both condoning and resisting violence. Prerequisites: None. Offered spring.

REL 344. CHRISTIANITY AND SOCIAL JUSTICE 4 sh

This course will focus on the religious foundations for social justice within the Christian tradition. Emphasis will be placed on employing a structural analysis of social problems that includes the role of religion and religious communities in both perpetrating and healing social injustice. Prerequisites: None. Offered fall.

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REL 348. ENVIRONMENTAL ETHICS 4 sh

In an exploration of the moral dimensions of the environmental crisis, students examine the roles which religious and philosophical ethics play in providing frameworks for understanding environmental issues and developing guidelines for addressing specific contemporary problems. (Cross-listed with PHL 348.)

REL 353. BUDDHISM 4 sh

This course gives students a critical understanding of basic concepts and doctrines of Buddhism, considering the similarities and contrasts between the different major schools of Buddhism as well as Buddhism's relationship to Taoism and Confucianism.

REL 352. HINDUISM 4 sh

This study of the history, scripture and beliefs of this major religion of India includes topics such as the doctrine of creation, karma, reincarnation and the problem of evil.

REL 354. LIFE BEYOND DEATH 4 sh

This course explores the various meanings of death and the afterlife found in selected religious traditions of the world. It will review perspectives on death from theologians and philosophers and examine popular metaphors for death as well as analyze the roles that the fear of death plays in the world's religions. Prerequisites: None. Offered fall.

REL 355. PHILOSOPHY OF RELIGION**4 sh**

This course is cross-listed with PHL 355.

REL 358. YOGA: THE PRACTICE OF SPIRITUAL TRAINING**4 sh**

This course will address and analyze the history and practice of spiritual training and self-cultivation developed in India. The course will help students understand different yogic paths and the practice of a variety of ascetic and meditative techniques as they have developed in Hinduism, Buddhism and Taoism. Offered spring.

REL 361. ISLAM**4 sh**

Study of the history, scripture and beliefs of Islam gives attention to Islam as an influential force in the contemporary world.

REL 362. ISLAM IN AMERICA**4 sh**

This course traces the history of the American Muslim communities, the differences between the experiences of African-American Muslims and immigrant Muslims, and the implications of their presence in the United States. Particular attention will be paid to various aspects of Muslim life in America, such as Muslim organizations, generational differences, gender and legal issues, conversion and everyday lifestyles. Offered fall.

REL 363. MUSLIMS IN THE MODERN WORLD**4 sh**

This course presents Muslims as a religious, cultural and political force from late modernity to the present. Students will study Islamic modernism and reform, the rise of political Islam, the interaction between Muslims and the West and the growing Muslim presence in the West. Attention will be given to the status of women in Muslim societies, Islamic law in modern nation-states and the effects of September 11, 2001. Offered spring.

REL 364. APPROACHING THE QUR'AN**4 sh**

This course introduces students to the sacred scripture of the Islamic faith, the Qur'an. It presents the history of Qur'anic revelation; language, structure and translations of the Qur'an; and interpretation and application of the scripture in the lives of Muslims. Special attention is given to Qur'anic verses on prophets, eschatology, creation, Jihad, women, and Jews and Christians, in comparison to the Old and New Testament where possible. Offered fall.

REL 380. RELIGION IN CONTEMPORARY BRITAIN**4 sh**

The focus of this travel course centers on a study of the beliefs and practices of various faith communities in a multicultural and plural society; specifically modern-day Britain.

REL 381. JUDAISM**4 sh**

This course introduces students to the history, texts, beliefs and practices of Judaism.

REL 460-469. SPECIAL TOPICS**4 sh**

These courses allows individual faculty members to teach courses on timely topics that are of special interest to students or on topics that are related to faculty research projects that may be of interest to students. Prerequisites: As appropriate for each course. Offered fall and spring.

REL 471. SEMINAR: SPECIAL TOPICS**1-4 sh****REL 481. INTERNSHIP IN RELIGIOUS STUDIES****1-4 sh**

This course provides opportunities for upper-level students to apply concepts and information gained in the religious studies classroom to actual experiences in local community and church agencies or as teaching assistants in freshman-level classes. Maximum four semester hours toward major. Prerequisites: junior/senior majors only, faculty approval.

REL 491. INDEPENDENT STUDY**1-4 sh**

Upper-class majors (or others by instructor consent) may complete individual study in

an area of special interest with the guidance of a member of the department. Maximum six semester hours credit.

REL 492. SENIOR SEMINAR **4 sh**

In this capstone course, the student and the department evaluate performance over the student's past years of study. Prerequisite: REL 292. Required of all majors during senior year.

REL 499. RESEARCH **1-4 sh**

Science

Associate Professors: Agnew, N. Harris, Seidel, Wright
Assistant Professor: Lee

Science courses integrate the natural sciences, providing the opportunity to see the interrelatedness of the different science disciplines. Students experience the processes of science and relate the natural sciences to areas outside the classroom and laboratory.

SCI 121. SCIENCE WITHOUT BORDERS **4 sh**

Investigate the major ideas in the natural sciences and their commonalities in this non-traditional science course emphasizing the processes of science through hands-on, minds-on activities. Intended for nonscience majors. Science Without Borders is a natural science course, and students are responsible for understanding science content and processes. Students collaborate to prepare projects relating the natural sciences to a complex "real-world" problem and bring in other disciplines in a benefits/risks analysis. This course does not carry lab credit, but does count toward the nonlaboratory science General Studies requirement.

Science Education

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Coordinator: Associate Professor Agnew

The Departments of Biology, Chemistry and Physics in cooperation with the Department of Education offer programs leading to the Bachelor of Arts in Science Education with Secondary Science Comprehensive Licensure and with Secondary Science Licensure in the areas of biology, chemistry and physics.

The Bachelor of Arts degree with Secondary Science Comprehensive Licensure requires the following courses:

Professional Studies courses in Education, Psychology and Information Systems	35 sh
PHY 102 Astronomy	4 sh
PHY 103 Geology	4 sh
All courses in one of the concentrations listed below	40 sh
Eight semester hours in science courses from each of the other two listed areas	4-16 sh
TOTAL	87-99 sh

Concentrations

Biology concentration:

BIO 111 Introductory Cell Biology	3 sh
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BIO 112	Introductory Population Biology	3 sh
BIO 113	Cell Biology Lab	1 sh
BIO 114	Population Biology Lab	1 sh
BIO 221	Zoology	4 sh
BIO 222	Botany	4 sh
BIO 322	Molecular/Cellular Biology	4 sh
CHM 111	General Chemistry I	3 sh
CHM 112	General Chemistry II	3 sh
CHM 113	General Chemistry I Lab	1 sh
CHM 114	General Chemistry II Lab	1 sh
CHM 211	Organic Chemistry I	3 sh
CHM 213	Organic Chemistry I Lab	1 sh
Select one course from:		4 sh

- BIO 312 Comparative Vertebrate Anatomy
- BIO 321 Microbiology
- BIO 325 Human Histology
- BIO 335 Field Biology
- BIO 342 Plant Physiology
- BIO 452 General Ecology

Select one course from: 4 sh

- CHM 212/214 Organic Chemistry II & Lab
- CHM 205 Inorganic Chemistry
- CHM 332 Physical Chemistry I

TOTAL **40 sh**

Chemistry concentration:

CHM 111	General Chemistry I	3 sh
CHM 112	General Chemistry II	3 sh
CHM 113	General Chemistry I Lab	1 sh
CHM 114	General Chemistry II Lab	1 sh
CHM 211	Organic Chemistry I	3 sh
CHM 212	Organic Chemistry II	3 sh
CHM 213	Organic Chemistry I Lab	1 sh
CHM 214	Organic Chemistry II Lab	1 sh
CHM 205	Inorganic Chemistry	4 sh or
CHM 311	Quantitative Analysis	
CHM 332	Physical Chemistry I	4 sh
BIO 111	Introductory Cell Biology	3 sh
BIO 113	Introductory Cell Biology Lab	1 sh
PHY 113	General Physics with Calculus I	4 sh
PHY 114	General Physics with Calculus II (Physics 111 and 112 may be substituted for Physics 113 and 114)	4 sh
MTH 121	Calculus and Analytic Geometry I	4 sh

TOTAL **40 sh**

Physics concentration:

PHY 113	General Physics with Calculus I	4 sh
PHY 114	General Physics with Calculus II	4 sh
(Physics 111 and 112 may be selected to satisfy eight semester hours in Physics for Biology or Chemistry concentration.)		
PHY 213	Modern Physics	4 sh
PHY 301	Classical Mechanics and Dynamical Systems	4 sh
PHY 311	Classical Electrodynamics	4 sh
PHY 312	Electricity, Magnetism and Field Theory	4 sh
PHY 411	Quantum Mechanics	4 sh
MTH 121	Calculus and Analytic Geometry I	4 sh
MTH 221	Calculus and Analytic Geometry II	4 sh
MTH 321	Calculus and Analytic Geometry III	4 sh
TOTAL		40 sh

Secondary Science Licensure

The Bachelor of Arts degree with Secondary Science Licensure requires the following courses:

Professional Studies Courses in Education and Psychology		35 sh
PHY 102	Astronomy	4 sh
PHY 103	Geology	4 sh
All courses in one of the concentrations listed below		40 sh
Twelve semester hours in science courses from one of the other two listed areas		0-12 sh
TOTAL		83-95 sh

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Concentrations**Biology concentration:**

BIO 111	Introductory Cell Biology	3 sh
BIO 112	Introductory Population Biology	3 sh
BIO 113	Cell Biology Lab	1 sh
BIO 114	Population Biology Lab	1 sh
BIO 221	Zoology	4 sh
BIO 222	Botany	4 sh
BIO 322	Molecular/Cellular Biology	4 sh
Select one course from:		4 sh
BIO 312	Comparative Vertebrate Anatomy	
BIO 321	Microbiology	
BIO 325	Human Histology	
BIO 335	Field Biology	
BIO 342	Plant Physiology	
BIO 452	General Ecology	
CHM 111	General Chemistry I	3 sh

CHM 112	General Chemistry II	3 sh
CHM 113	General Chemistry I Lab	1 sh
CHM 114	General Chemistry II Lab	1 sh
CHM 211	Organic Chemistry I	3 sh
CHM 213	Organic Chemistry I Lab	1 sh
Select one course from:		4 sh

CHM 212/214 Organic Chemistry II & Lab

CHM 205 Inorganic Chemistry

CHM 332 Physical Chemistry I

TOTAL	40 sh
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Chemistry concentration:

CHM 111	General Chemistry I	3 sh
CHM 112	General Chemistry II	3 sh
CHM 113	General Chemistry I Lab	1 sh
CHM 114	General Chemistry II Lab	1 sh
CHM 211	Organic Chemistry I	3 sh
CHM 212	Organic Chemistry II	3 sh
CHM 213	Organic Chemistry I Lab	1 sh
CHM 214	Organic Chemistry II Lab	1 sh
CHM 205	Inorganic Chemistry	4 sh or
CHM 311	Quantitative Analysis	
CHM 332	Physical Chemistry I	4 sh
BIO 111	Introductory Cell Biology	3 sh
BIO 113	Introductory Cell Biology Lab	1 sh
PHY 113	General Physics with Calculus I	4 sh
PHY 114	General Physics with Calculus II	4 sh
(Physics 111 & 112 may be substituted for Physics 113 and 114)		
MTH 121	Calculus and Analytic Geometry I	4 sh

TOTAL	40 sh
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Physics Concentration:

PHY 113	General Physics with Calculus I	4 sh
PHY 114	General Physics with Calculus II	4 sh
PHY 213	Modern Physics	4 sh
PHY 301	Classical Mechanics and Dynamical Systems	4 sh
PHY 311	Classical Electrodynamics	4 sh
PHY 312	Electricity, Magnetism and Field Theory	4 sh
PHY 411	Quantum Mechanics	4 sh
MTH 121	Calculus and Analytic Geometry I	4 sh
MTH 221	Calculus and Analytic Geometry II	4 sh
MTH 321	Calculus and Analytic Geometry III	4 sh

TOTAL	40 sh
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Social Science

The disciplines of the social sciences offer several interdisciplinary courses that study the methods and approaches used in the social science fields. In addition, the social sciences host the Social Science Fellows program.

SSC 350. SCHOLARSHIP AT WORK: RESEARCH IN THE SOCIAL SCIENCES **2 sh**

This course offers an interdisciplinary seminar exploring how scholars in the social sciences ask questions, explore topics and apply their research. Students must concurrently register for a research course (two semester hours) to work with a faculty mentor from the social science division to prepare a research proposal for a Fellows Project. Prerequisites: acceptance as a Social Science Fellow and junior standing.

SSC 351. SCHOLARSHIP AT WORK: RESEARCH IN THE SOCIAL SCIENCES **2 sh**

This course offers an interdisciplinary seminar exploring how scholars in the social sciences ask questions, explore topics and apply their research. Students must concurrently register for a research course (two semester hours) to work with a faculty mentor from the social science division to begin work on their Fellows Project. Prerequisites: acceptance as a Social Science Fellow and junior standing.

Sociology and Anthropology

Chair, Department of Sociology: Associate Professor A. Jones

Coordinator, Anthropology Minor: Professor Bolin

Professors: Arcaro, Basirico, T. Henricks

Assistant Professors: Curry, K. Jones, Mould

Adjunct: Smith-Nonini

Sociology and anthropology provide the student with an exceptional understanding of the world by developing an awareness of how society and culture shape our lives and perspectives. Studying sociology and anthropology is more like a journey in which we learn to stand outside ourselves to see our world with new eyes.

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Sociologists and anthropologists study all forms and dimensions of human social and cultural behavior from the institutional to the interpersonal e.g., "How do people select a mate? How are people organized into groups such as sororities, fraternities and sports teams? How do institutions such as the family, economy, government, religion and health-care develop and affect our lives?"

With their wide scope, sociology and anthropology are linked to all the disciplines and are complementary to any major found at Elon. The U.S. is a culturally diverse society and solutions to our interpersonal, community, national and international problems demand an understanding of society and culture.

The sociocultural perspective students develop through sociology and anthropology is an asset not only in their personal lives, but also in business, politics, economics, healthcare, education, health and fitness, social services, the mental health field, urban planning, family planning and many other professions.

A major in Sociology requires the following courses:

SOC 111	Introductory Sociology	4 sh
SOC 112	Introduction to Cultural Anthropology	4 sh
SOC 215	Sociocultural Inquiry	4 sh
SOC 216	Research Methods in Sociology	4 sh

SOC 261	Sociological Theory	4 sh
SOC 451	Comprehensive Review in Sociology	2 sh
SOC 461	Senior Seminar in Sociology	4 sh
Sixteen semester hours of electives in Sociology courses		16 sh
TOTAL		42 sh

A minor in Sociology requires the following courses:

SOC 111	Introductory Sociology	4 sh
SOC 215	Sociocultural Inquiry	4 sh or
SOC 216	Research Methods in Sociology	4 sh
Twelve semester hours selected from Sociology courses		12 sh
TOTAL		20 sh

A minor in Anthropology requires the following courses:

SOC 112	Introduction to Cultural Anthropology	4 sh
SOC 215	Sociocultural Inquiry	4 sh
Twelve semester hours selected from:		12 sh
SOC 113	Human Evolution and Adaptation	
SOC 121	Cross-Cultural Encounters (two semester hours)	
SOC 227	From the Ground Down	
SOC 253	Studies Abroad in Australia	
SOC 322	Ethnography	
SOC 324	Culture and Sex	
SOC 325	Culture and Health	
SOC 326	Anthropology of the Corporation	
SOC 327	Encountering the Sacred	
SOC 328	Culture and the Modern World	
SOC 345	Sociocultural Perspectives on Gender	
SOC 362	Readings in Anthropology	
SOC 363	Latin American Social Movements	
SOC 364	Inequality and Development in Latin America	
SOC 380-389	Special Topics in Anthropology	
SOC 482	Internship in Anthropology (1-4 semester hours)	
ENG 303	Linguistics	
TOTAL		20 sh

SOC 111. INTRODUCTORY SOCIOLOGY **4 sh**

This course provides an introduction to basic theoretical principles and research methods of modern sociology, including such issues as the relationship between culture, personality and society; the fundamental forms of social structure; social institutions such as religion and the family; and social processes such as deviance and social change. Offered fall and spring.

SOC 112. INTRODUCTION TO CULTURAL ANTHROPOLOGY **4 sh**

This introduction to the study of human cultures focuses on the diversity of human cultures around the globe. It presents basic concepts, theories and methods used by anthropologists studying people and culture. Topics span human cultural evolution, social organization, marriage and family, making a living, economics, politics, religion and human problems related to issues of globalization, among others. Offered fall and spring. Required course for the Sociology major and the Anthropology minor.

SOC 113. HUMAN EVOLUTION AND ADAPTATION**4 sh**

This course provides a basic introduction to neo-Darwinian theory and natural selection, Mendelian and population genetics, mechanisms of human biological and cultural adaptation and interpretation of the primate and hominid fossil record (drawing on both paleontology and molecular genetics). Special attention is paid to the interaction of social mechanisms with biological and environmental influences in human evolution. Readings include an introduction to medical biotechnology and the Human Genome Diversity Project.

SOC 121. CROSS-CULTURAL ENCOUNTERS**2 sh**

This course is an introduction to the subject of culture and to living in a multicultural world. The central theme of the course is appreciating as well as understanding cultural diversity. Students will develop and expand their cultural sensitivity through a variety of experiential activities focused on becoming more aware of the role of culture as central in defining who we are as individuals. Exposure to the unique approaches of anthropologists in encountering and communicating with peoples of different cultures and backgrounds will be emphasized. This course will serve as an excellent foundation for a variety of majors in communications, the humanities, the social sciences, business, education and for those with a geographic focus such as Asia, Africa, Russia, etc. It will also serve as preparation for the Studies Abroad experience.

SOC 131. SOCIOLOGY THROUGH FILM**4 sh**

This course explores sociological principles, concepts, theories, ideas, themes and issues as they may be illustrated in cinema, television and commercials. Relevant sociological readings are assigned to accompany the specific sociological content being illustrated in each session.

SOC 215. SOCIOCULTURAL INQUIRY**4 sh**

Students develop an understanding of the ways sociologists and anthropologists inquire about society, use sociocultural perspectives and theories to frame researchable questions and discuss ways of collecting and analyzing information. Special emphasis is given to library and other informational technology and to qualitative methodology, including content analysis and field research. Prerequisite: SOC 111 or 112.

249**SOC 216. RESEARCH METHODS IN SOCIOLOGY****4 sh**

Students examine basic sociological research methods, with an emphasis on quantitative methodology. Topics to be covered include the philosophy of science, concept and theory formation, problem identification and definition, literature review, theoretical relevance of the investigation, selecting indicators of social phenomenon, hypothesis testing, sampling procedures, scale and index construction, survey creation and analysis, analysis of aggregate data and the collection and analysis of quantitative data. SPSS as an analytical tool will be emphasized. Students are also introduced to qualitative methodology.

SOC 227. FROM THE GROUND DOWN**4 sh**

Students explore the adventure and science of archaeology from the perspective of an anthropologist. This course highlights great discoveries in archaeology with a look at famous sites worldwide. An overview of the development of archaeology from treasure hunting to a high-tech science are presented. Additional topics include fieldwork techniques, artifact analysis, interpretation, forensic analysis and cultural resource preservation. The course includes visits to archaeological sites in the area.

SOC 241. SOCIAL ISSUES AND PROBLEMS**4 sh**

Students investigate social issues pertaining to institutions and use a sociological framework to discover the interconnections between national and global problems. Study focuses on causes, consequences and policies concerning such problems as racism, sexism, poverty, war, overpopulation and issues pertaining to institutions of the family, economy, government, medicine, religion and others.

SOC 245. NONVIOLENCE OF THE BRAVE: FROM GANDHI TO KING**4 sh**

Students are exposed to the ideas and personalities of political philosophers and leaders who have influenced major nonviolent social and political movements in the 20th century. Common themes appearing in the philosophies and action plans of Thoreau, Gandhi, King and others are explored and compared to the philosophies and action plans of leaders such as Mao Tse-tung, Malcolm X and others. The course includes readings, feature films and documentaries.

SOC 253. STUDIES ABROAD IN AUSTRALIA**4 sh**

Students experience western Australia through anthropological and sociological perspectives. The influence of Aboriginal, European and Pacific migrants on Australian culture is examined. A predominant focus of the course is an exploration of Aboriginal peoples in relation to Euro-Australian interests. Students are exposed to a rich cultural milieu through orientation prior to departure, participant-observation, focused observations, field trips, lectures and directed self learning. Offered winter.

SOC 261. SOCIOLOGICAL THEORY**4 sh**

In sociological theory, students explore conceptualization and model-building in modern sociology and consider the emergence of sociological traditions or perspectives. Topics include underlying assumptions, historical and intellectual background and the logical consequences of these positions. This course is a writing intensive course, meaning at least 70 percent of the grade comes from writing assignments during the course. Prerequisite: SOC 111. Offered spring.

SOC 311. THE FAMILY**4 sh**

This course provides an investigation of the family as an institution in societies, focusing on the development and current patterns of the American family. Specific topics include social class differences, racial and ethnic variations, premarital patterns, marital interaction, family problems and the future prospects for the family. Prerequisite: SOC 111.

SOC 314. SOCIOLOGY OF SPORT**4 sh****250**

This course focuses on sport as a major social institution in American society. Topics include the social organization of sport, the relationship of sport to other aspects of American life such as politics and education, the experiences of African-Americans, women and youth in sport, and the effects of sport on culture, personality and society. Prerequisite: SOC 111.

SOC 322. ETHNOGRAPHY**4 sh**

This course teaches the methods anthropologists use to gain access, develop rapport, collect and analyze data and interpret findings when studying human cultures. Students also read selected ethnographies (first-hand accounts by anthropologists who have lived among peoples of various cultures, including ourselves, throughout the globe). Prerequisite: SOC 111 or 112.

SOC 324. CULTURE AND SEX**4 sh**

This course examines human sexuality from a biocultural perspective, exploring the physiology of human sexuality and the cross-cultural context of sexual expression. Themes include alternative sexual lifestyles, sexual dysfunction, the symbolic dimensions of sexuality and AIDS. Prerequisite: SOC 111 or 112.

SOC 325. CULTURE AND HEALTH**4 sh**

This study of the biocultural basis of health and disease over time and across cultures examines the importance of culture in the experience of illness, diagnosis and treatments. Topics include the cultural implications of food and food habits, health care practices, the relationship of healers and patients, alternative health care practices and the relationship of mind and body in illness and recovery. Prerequisite: SOC 111 or 112.

SOC 326. ANTHROPOLOGY OF THE CORPORATION

4 sh

This course examines the worlds of corporate business, work and the international economy, using ethnographic and sociological case studies as well as political economy analysis. Students explore the cultural meaning of social class and compare the organization and experience of modern workplaces and markets cross-culturally. Topics include the history of capitalist expansion, relations between transnational corporations and governments, organized labor, advertising, the neoliberal movement, globalization and public debates over "free trade" and corporate governance. Prerequisite: SOC 111 or 112.

SOC 327. ENCOUNTERING THE SACRED

4 sh

Students develop an understanding of non-Western views of the world through intellectual and experiential study of Native American perspectives. Anthropological concepts are used in conjunction with non-Western methods of understanding. The course emphasizes the power of the oral tradition as a learning tool and explores the continuities and diversities of the Native American belief systems. Experiential activities include conversations with Native American healers and leaders, participation in powwows and a variety of outdoor activities designed to help the students develop an animistic perspective. Prerequisite: SOC 111 or 112.

SOC 328. CULTURE AND THE MODERN WORLD

4 sh

This course examines the changes that have created the "modern" world. The course initially considers social and cultural changes in Europe and America during the 19th and 20th centuries, including changes in public ideas and values, economics, politics, religion, family life, community, education and public ceremony. A key theme will be the impact on self experience. The second part of the course focuses on these issues as they are occurring presently within the developing countries. The nature and influence of an emerging global community will be examined. Prerequisite: SOC 111 or 112.

SOC 331. THE SELF AND SOCIETY

4 sh

Self and society involves the ways individuals are influenced by social interaction with others, with attention to the interaction processes of socialization, developing an identity and individual identities affecting interactions. Other topics include the impact of social change, increased technological developments in everyday life and postmodernism on the self, and the sociological perspectives of symbolic interactionism and dramaturgy. Prerequisite: SOC 111.

251

SOC 333. SOCIAL STRATIFICATION

4 sh

This study of societal patterns of inequality includes consideration of differences in wealth, power, prestige and knowledge. Students examine the access levels groups have to these resources and the subsequent effects of their access level on educational opportunity, housing, health care, justice before the law, self-esteem and life satisfaction. The stratification systems of the different societies are studied, but the primary focus is on institutionalized inequality in the U.S. Prerequisite: SOC 111.

SOC 341. ETHNIC AND RACE RELATIONS

4 sh

Students examine the meaning of minority group status in terms of the general patterns and problems confronting all minorities as well as the specific issues facing individual minority groups such as African-Americans, Jews, European-Americans and Asian-Americans. Discussion emphasizes the nature of prejudice and discrimination, the structure of minority-majority relations and strategies toward social equality. Prerequisite: SOC 111.

SOC 342. SOCIAL DEVIANCE

4 sh

This course considers deviance and social control in societal context. Emphasis is placed on the ways in which deviance is defined cross-culturally and on the different ways in which deviants are labeled and treated. The course focuses on sociocultural explanations of deviance within such areas as mental and physical health, drug use, sexual expression,

aggression and personal identity. The relationship between deviance and social stratification is examined. Prerequisite: SOC 111.

SOC 343. SOCIAL AND CULTURAL CHANGE

4 sh

Concern for the nature and direction of modernization provides a foundation in this course as students analyze patterns of social and cultural change (especially in technologically advanced societies such as the U.S.). Topics include innovation, diffusion, evolution, revolution, collective behavior and social movements with emphasis on the causes of patterns and their effects on individual and public life. Prerequisite: SOC 111.

SOC 345. SOCIOCULTURAL PERSPECTIVES ON GENDER

4 sh

Students use sociological and anthropological perspectives, theories and concepts to analyze the meaning of being female and male in American society. Discussion emphasizes the inequities based upon gender, particularly the problems faced by women. Prerequisite: SOC 111 or 112.

SOC 351. SOCIOLOGY OF POPULAR CULTURE

4 sh

This course studies the nature and significance of culture as this is presented to the public through movies, magazines, newspapers, television, music, radio, popular fiction, spectator events and mass-produced consumer goods. The course will focus on patterns of production, distribution and consumption of popular culture, thematic issues and effects on behavior. A special concern will be the relationship of popular culture images to "visions of the good life" in the modern U.S. Prerequisite: SOC 111.

SOC 355. SOCIOLOGY OF CRIME

4 sh

This course provides a sociological explanation of crime with a focus on the relationship between social structure and criminal behavior. Included in this approach are studies of individual criminal behavior. Both classic and contemporary theories of crime are explored; emphasis is placed upon the American context.

SOC 361. READINGS IN SOCIOLOGY

4 sh

In this colloquium of significant readings in sociology, students explore specific substantive topics, key theoretical issues and new developments in the discipline. Prerequisites: junior or senior standing, SOC 111 or 112. Offered fall.

SOC 362. READINGS IN ANTHROPOLOGY

4 sh

In this colloquium of significant readings in anthropology, students explore specific substantive topics, key theoretical issues and new developments in the discipline. Prerequisites: junior or senior standing, SOC 111 or 112. Offered fall.

SOC 363. LATIN AMERICAN SOCIAL MOVEMENTS

4 sh

This course uses anthropological and sociological case studies of Latin American and Latino social movements to examine the causes, processes and consequences of contemporary struggles for social change. We focus primarily on movements during the 1980s and 1990s. Special attention is paid to the roles played by military repression, the Catholic Church, paramilitary groups and non-governmental organizations (NGOs). We look at how workers, women and indigenous peoples are shaping popular movements, as well as their reception by national and transnational elites, including the U.S. government.

SOC 364. INEQUALITY AND DEVELOPMENT IN LATIN AMERICA

4 sh

This course examines the persisting extreme disparity between rich and poor in Latin America with special attention to the promise and problems of post-World War II development. We draw on historical material and case studies to examine the roles of modernization and dependency theories; the World Bank and IMF; the women's movement; grassroots struggles; non-governmental organizations (NGOs); and neoliberal policies in shaping and reshaping development. The current push for "free trade" policies is evaluated in light of criteria from emerging models for more sustainable, participatory development.

SOC 370-379. SPECIAL TOPICS IN SOCIOLOGY**2-4 sh**

This series of courses reflecting new contributions in sociology or sociological issues.
Prerequisite: to be determined by instructor.

SOC 380-389. SPECIAL TOPICS IN ANTHROPOLOGY**2-4 sh**

This series of courses reflects new contributions in anthropology or anthropological issues. Prerequisite: to be determined by instructor.

SOC 451. COMPREHENSIVE REVIEW IN SOCIOLOGY**2 sh**

Students review the major theories, principles and concepts in sociology as preparation for major evaluation. This course is intended primarily for senior sociology majors and sociology minors. Students from other areas who seek a review of the field also may take this course. Prerequisites: must be sociology major, minor or have permission of the instructor and at least junior standing. Offered spring.

SOC 461. SENIOR SEMINAR IN SOCIOLOGY**4 sh**

This capstone course reviews major areas of sociology and provides further opportunity to share research on these topics. Students conduct research ranging from how sociological knowledge can be applied occupationally and politically to more basic, academic topics. Prerequisite: senior sociology major, SOC 215 and SOC 216.

SOC 471. SEMINAR: SPECIAL TOPICS**2-4 sh****SOC 481. INTERNSHIP IN SOCIOLOGY****1-4 sh**

Teaching, research, service and occupational internships are offered. Limited to four semester hours credit applicable to sociology major or minor. Prerequisites: department permission and at least sophomore standing.

SOC 482. INTERNSHIP IN ANTHROPOLOGY**1-4 sh**

Teaching, research, service and occupational internships are offered. Limited to four semester hours credit applicable to sociology major or minor, or anthropology minor. Prerequisites: department permission and at least sophomore standing.

SOC 491. INDEPENDENT STUDY**1-4 sh****SOC 499. INDEPENDENT RESEARCH IN SOCIOLOGY AND ANTHROPOLOGY****1-8 sh**

The student develops an individual project of original research under the guidance of a professor within the department. Prerequisites: at least sophomore standing; sociology major or minor, or anthropology minor; satisfactory completion of SOC 215 or SOC 216; and permission of the sponsoring professor. Students are also required to complete the department's Independent Research form, a process that includes a description of the proposed research and a student-professor plan for completing the course.

253***Theatre Arts***

Chair, Department of Performing Arts: Professor McNeela

Associate Professors: Becherer, K. Lee, Rubeck, Sabo

Assistant Professors: Gang, Smith, Wahl, Webb

Adjuncts: Flannery, Hiller, Hyers, Johnson, Szabo

The study of Theatre Arts can be a vital part of a liberal arts education. Creativity, teamwork, problem solving, communication skills and critical thinking are all enhanced by this study, regardless of the student's eventual career goals.

The Department of Performing Arts offers a Bachelor of Fine Arts (BFA) degree in Theatre Arts with an acting emphasis, a Bachelor of Arts (A.B.) degree in Theatrical Design

and Production and a Bachelor of Arts (A.B.) degree in Theatre Studies. A minor is also available. The BFA degree in acting is intended for the student who wishes to pursue a professional career in theatre. Students who complete this degree may also pursue further graduate training. The A.B. degree in Theatrical Design and Production is intended for the student who wishes to pursue a career in professional Theatrical Production or Design. Students who complete this degree may also pursue further graduate training. The A.B. in Theatre Studies is a liberal arts degree from which students may pursue various career options, including possible graduate study.

Please note that an audition is required for entry to the BFA Acting program, and an interview/portfolio showing is required for entry to the A.B. Theatrical Design and Production program. The A.B. in Theatre Studies is open-enrollment — no interview or audition is required.

The course of study within all three degrees emphasizes a thorough grounding in fundamental areas of the theatre (acting, design and production, and theatre history and literature.) The BFA degree in Acting then explores script analysis, directing and intense training in acting. The A.B. degree in Theatrical Design and Production explores script analysis, directing and a full range of courses in design and production. The A.B. degree in Theatre Studies is completed with a series of electives selected by the student, reflecting their primary interests in the art form. To provide practical application of coursework, students are expected to participate actively in department productions. For those interested in a career in theatre, regular opportunities exist for contact with the professional world through master classes, guest artists and participation in regional and national conferences, conventions, auditions and competitions.

The minor in Theatre Arts is designed for the general theatre enthusiast. Students complete a study of the base-level skills in performance, production and theory, followed by advanced study in a selected area. The purpose of this study is to create more informed audience members and avocational participants.

A major in Theatre Arts (BFA degree, acting emphasis) requires the following courses:

THE 120	Acting I	4 sh
THE 210	Technical Production in Theatre	4 sh
THE 220	Acting II	4 sh
THE 221	Acting III	4 sh
THE 222	Fundamentals of Make-up Design and Application	2 sh
THE 225	Vocal Production I	1 sh
THE 226	Vocal Production II	1 sh
THE 230	Playscript Analysis	4 sh
THE 301	Theatre History and Literature I	4 sh
THE 302	Theatre History and Literature II	4 sh
THE 320	Acting IV – Special Topics – Repeatable	12 sh
THE 325	Vocal Production III	1 sh
THE 326	Vocal Production IV	1 sh
THE 430	Play Direction	4 sh
THE 495	Senior Seminar	4 sh
Any 300-400 level design course		4 sh

Eight semester hours of electives selected from:	8 sh
Private Voice or Studio Dance (up to four credit hours, total)	
Additional hours of THE 320	
Winterstock Theatre (up to four credit hours, total)	
Theatre, Dance or Voice Ensemble (up to four credit hours, total)	
English or Foreign Language courses with a focus on	
Dramatic Literature (up to four credit hours, total)	

TOTAL	66 sh
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A major in Theatrical Design and Production (A.B. degree) requires the following courses:

THE 115	B.A. Acting I	4 sh
THE 210	Technical Production in Theatre	4 sh
THE 230	Playscript Analysis	4 sh
THE 301	Theatre History and Literature I	4 sh
THE 302	Theatre History and Literature II	4 sh
THE 430	Play Direction	4 sh
THE 440	Special Topics: Scene Design	4 sh
THE 440	Special Topics: Lighting Design	4 sh
THE 440	Special Topics: Costume Design	4 sh
THE 495	Senior Seminar	4 sh

Eight semester hours (at least four semester hours at 300-400 level) selected from:	8 sh
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Any Theatre Arts course

DAN 101 Introduction to Dance

Any course in English or Foreign Language with a focus on dramatic literature

Any Art History or Studio Art course

TOTAL	48 sh
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A major in Theatre Studies (A.B. degree) requires the following courses:

THE 101	Introduction to Theatre	4 sh
THE 115	B.A. Acting I	4 sh
THE 210	Technical Production in Theatre	4 sh
THE 215	B.A. Acting II	4 sh
THE 301	Theatre History and Literature I	4 sh
THE 302	Theatre History and Literature II	4 sh
THE 495	Senior Seminar	4 sh

Any 300-400 level design course	4 sh
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Sixteen semester hours (at least eight semester hours at 300-400 level) selected from:	16 sh
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Electives in Theatre Arts courses

Any course in English

or Foreign Language with a focus on dramatic literature.

TOTAL	48 sh
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A minor in Theatre Arts requires the following courses:

THE 101	Introduction to Theatre	4 sh
THE 125	Acting for Nonmajors	4 sh
THE 210	Technical Production in Theatre	4 sh
Eight hours THE electives at the 300-400 level		8 sh
TOTAL		20 sh

THE 101. INTRODUCTION TO THEATRE 4 sh

Students explore the nature of theatre, how it is created and how it functions in society. Primary study covers the diversity of the art form, basic terminology and the event audience relationship. Performance reaction papers, creative projects and lab hours are required. Offered fall and spring. (THE 101 is cross-listed with FNA 101.)

THE 110. THEATRE WORKSHOP 2-4 sh

Students work with a professor to earn credit for hands-on experiences in theatrical production. Maximum four semester hours credit. Offered fall, winter and spring.

THE 115. B.A. ACTING I 4 sh

This course is specifically designed to meet the needs of the A.B. Theatre Studies and Theatrical Design and Production majors. Students will explore topics related to acting and establish a foundation of acting skills through work on scenes and monologues from realistic plays. Students will also develop critical and other observational skills by writing reaction papers on plays they attend. Prerequisites: A.B. Theatre Studies or Theatrical Design and Production majors, or permission of instructor. Offered spring.

THE 120. ACTING I 4 sh

Students are introduced to and practice the Meisner technique, starting with basic repetition, continuing through and including the final improvisation. The semester ends with scene work incorporating the moment to moment listening skills acquired from the Meisner exercises. Prerequisite: BFA Theatre Arts/Music Theatre majors or permission of instructor. Offered fall.

THE 125. ACTING FOR NONMAJORS 4 sh

This course is designed to meet the interests of the nonmajor. With this course's dual focus, students gain experience in acting and examine topics such as the art of acting, leading to a more informed audience respondent. Performance reaction papers are required. Offered fall and spring.

THE 210. TECHNICAL PRODUCTION IN THEATRE 4 sh

Students learn the basics of theatrical production in scenery and lighting, including fundamental drafting skills. An intensive hands-on lab is required. Offered fall.

THE 215. B.A. ACTING II 4 sh

This course is specifically designed to meet the needs of the A.B. Theatre Studies majors. Students will increase their skills and understanding of the work of the actor through continued work on scenes and monologues from plays with a wide variety of styles. Students will further develop their critical and observational skills by writing reactions papers on plays they attend. Prerequisites: THE 115. Offered fall.

THE 220. ACTING II 4 sh

Students prepare scenework exercises to continue developing acting skills with focus on realistic drama approached through a Stanislavski-based methodology. Performance reaction papers are required. Prerequisite: THE 120. Offered fall.

THE 221. ACTING III 4 sh

This is an advanced course in performance skill for BFA Musical Theatre and BFA Theatre Arts students only. Students are introduced to advanced Meisner exercises that

teach the art of the impediment and cause and effect listening and responding through the physical instrument, text specificity using standard nursery rhymes and the building of character through point of view exercises utilizing Master's *Spoon River Anthology*. The semester ends with scenework designed to incorporate the various skills taught in exercise. Prerequisite: THE 220. Offered spring.

THE 222. FUNDAMENTALS OF MAKE-UP DESIGN AND APPLICATION 2 sh

Students learn the basic art of two-and three-dimensional stage make-up design and application, including corrective, age, fantasy and prosthetics. Students must purchase a make-up kit. Offered fall and spring.

THE 223. THEATRE ENSEMBLE 1 sh

Students earn credit for performing in department productions. This course is repeatable. Prerequisite: admission by audition only. Offered fall and spring.

THE 225. VOCAL PRODUCTION I 1 sh

This course is designed to meet the needs of the beginning BFA acting student. Students will be introduced to various breathing and movement techniques, which will allow them as young artists to understand the use of the body and voice as an instrument. To begin to understand how to have "control" of the instrument and to physically relax when speaking and moving with the high emotional content that comprises all Theatre Art. They will begin to develop "actor warm-ups" that they will then continue to use and refine throughout their careers. They will be introduced to the techniques of graphically representing tongue muscularity utilizing first broad then narrow International Phonetic Alphabet transcription (for theatrical purpose). They will be introduced to Transatlantic Speech as a reference dialect. Prerequisites: BFA Acting majors or permission of instructor only. Offered spring.

THE 226. VOCAL PRODUCTION II 1 sh

This course is designed to meet the needs of the advanced beginner BFA Acting student. Students will continue to build on the skills learned in THE 125 Vocal Production I — a continued journey into the experience of owning and controlling the artistic instrument including breathing, movement, International Phonetic Alphabet transcription and Transatlantic speech. Prerequisite: THE 225. BFA Acting majors or permission of instructor only. Offered fall.

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THE 230. PLAYSRIPT ANALYSIS 4 sh

Students learn various methods of analyzing playscripts as a basis for interpretation for all theatre artists. Offered fall.

THE 301. THEATRE HISTORY AND LITERATURE I 4 sh

Students explore the origins of the art form and its development through the 17th century, emphasizing understanding the historical context of the text and its performance conditions and methods by studying representative plays of each period. A major research assignment is required. Offered fall.

THE 302. THEATRE HISTORY AND LITERATURE II 4 sh

Students further explore the evolution of the art form from the 17th century to the present with emphasis on understanding the historical context of the text and its performance conditions and methods by studying representative plays of each period. A major research assignment is required. Offered spring.

THE 310. ADVANCED PROJECTS IN THEATRE 2-4 sh

Advanced, experienced theatre students earn credit for assuming major responsibilities in department productions. May be repeated for credit. Prerequisites: permission of instructor, availability of projects. Offered fall, winter and spring.

THE 320. ACTING IV: SPECIAL TOPICS 2-4 sh

In this course for advanced performers, each semester examines a different topic such as

audition techniques, stage dialects, acting for the camera and period style. Performance reaction papers are required. May be repeated for credit. Prerequisites: THE 220, 221 or permission of instructor; majors only. Offered fall and spring.

THE 325. VOCAL PRODUCTION III

1 sh

This course is designed to meet the needs of the intermediate BFA Acting student. Students will continue to learn to apply vocal exercises and warm-ups by designing their own versions, based on the information provided in THE 225 and 226. Students will learn how to use their phonetic tools to analyze both classical and contemporary dialog and verse to better understand why a playwright has chosen specific sounds and words, and how as performers they might bring these sounds to organic life. They will learn how to use sounds as tools for organic acting. They will be introduced to scansion technique for verse speaking, phonetic length and technical analysis of both poetic and contemporary writing. Prerequisite: THE 225, 226, BFA Acting majors or permission of instructor only. Offered spring.

THE 326. VOCAL PRODUCTION IV

1 sh

This course is designed to meet the needs of the upper-level BFA Acting major. Students will continue to develop and experiment with various techniques, develop, clarify and warm-up the voice and speech mechanism and will engage in an in-depth study of accents and dialects. Students will learn how to develop "recipes" to provide for accurate and consistent acoustically appropriate dialects and accents using the International Phonetic Alphabet transcription and Transatlantic speech as their reference dialect. Students will become proficient with at least two or three dialects and be exposed to several more. Prerequisites: THE 225, 226, 325, BFA Acting majors or permission of instructor only. Offered fall.

THE 330. PLAYWRITING

4 sh

Students learn the skills, working methods and processes of theatrical playwriting by studying playscripts, known playwrights and strenuous writing assignments. Study culminates in a completed one-act script.

THE 363-64. WINTERSTOCK THEATRE

4 sh

Students earn credit for participation in departmental productions during winter term. Prerequisite: by audition only. Offered winter.

THE 430. PLAY DIRECTION

4 sh

Working methods of the stage director, from analysis through rehearsal, are the focus of this study, which culminates in a scene project by each student. Discussion emphasizes decision making and communicating with actors. Production reaction papers are required. Prerequisites: THE 230. Offered spring.

THE 440. SPECIAL TOPICS IN THEATRE PRODUCTION AND DESIGN

2-4 sh

Students conduct an in-depth examination of a different topic each semester, such as scenic design, lighting design, costume design, production stage management and technical direction. Production reaction papers are required. May be repeated for credit. Prerequisites: THE 210.

THE 495. SENIOR SEMINAR

4 sh

This capstone experience for senior Theatre Arts majors concentrates on two areas: a practical project demonstrating proficiency in the field and preparation for graduate study or work in the profession. Prerequisite: senior majors only. This course is two semesters in length. Students must take both semesters. Offered fall and spring.

Women's Studies/Gender Studies

Coordinator: Associate Professor G. Smith

The Elon University Women's Studies/Gender Studies program offers an interdisciplinary collection of courses focusing on the study of women, the ways men's and women's lives have been organized around gender and gender inequality. Diverse faculty members offer rigorous, interesting courses that utilize up-to-date scholarship. The extensive course offerings differ from year to year and come from a variety of fields, including upper-level interdisciplinary seminars.

The Women's/Gender Studies program raises awareness of how gender interacts with differences based on nationality, race, socioeconomic class, religion, sexual orientation and age. It develops in students critical thinking about gender that will translate into a habit of analysis about the world around them. WG minors, who are both male and female, integrate knowledge across disciplines and seek to connect knowledge to the world around them. They are educated citizens committed to justice and equality.

A minor in Women's/Gender Studies complements any major and contributes to personal growth as well. Elon WG minors go to graduate school; they have careers in social services, business, politics, teaching and many other fields; and they make a distinctive impact on their families and communities.

An independent major in Women's Studies/Gender Studies is also possible.

A minor in Women's Studies/Gender Studies requires the following:*

WGS 300 Current Controversies in Feminism 4 sh

Sixteen semester hours chosen from these courses: 16 sh

GST 270-WG	Women, Men and Society
ECO 317-WG	Economics of Gender
ENG 333-WG	Women in Literature: Feminist Approaches
ENG 356-WG	The Novel: British Women Writers
ENG 361-WG	Gender Issues in Cinema
GST 110-WG	The Global Experience
GST 257-WG	Women, Culture and Development
GST 369-WG	Men and Masculinity
HST 364-WG	History of Women in the United States
PHL 345-WG	Feminist Philosophy
POL 241-WG	International Relations
PSY 215-WG	Psychology of Personal Relationships
PSY 315-WG	Psychology of Sex and Gender
REL 347-WG	Women and Religion
SOC 311-WG	The Family
SOC 345-WG	Sociocultural Perspectives on Gender
WGS 371-379	Special Topics in Women's Studies/Gender Studies
WGS 461-469	Seminars on Various Topics
WGS 481	Internship in Women's/Gender Studies (one to four semester hours) or discipline-specific internship cross-listed with WG)
WGS 491	Independent Study (1-4 sh)

TOTAL

20 sh

* Other courses cross-listed with disciplines will be offered from time to time, with a suffix "WG" or parenthetical phrase indicating that they may be used to fulfill Women's Studies/Gender Studies requirements.

WGS 300. CURRENT CONTROVERSIES IN FEMINISM**4 sh**

This interdisciplinary course, designed for students ready to do advanced work, will explore several of the most highly contested issues within feminist thought and activism. Particular attention will be paid to writings by women marginalized by race, class, nationality and/or sexuality. Students will be expected to undertake a research project and/or activism. Prerequisite: Two courses in the WGS curriculum. Offered spring semester.

WGS 371-379. SPECIAL TOPICS IN WOMEN'S STUDIES/GENDER STUDIES**4 sh****WGS 461-469. SEMINARS ON VARIOUS TOPICS****4 sh**

These interdisciplinary seminars combine two or more approaches in feminist and/or gender scholarship, with varying concentrations on significant topics. Prerequisites: junior standing and two women's studies/gender studies courses.

WGS 481. INTERNSHIP IN WOMEN'S STUDIES/GENDER STUDIES**1-4 sh**

Teaching, research, service and occupational internships focusing on women/gender issues are offered. Prerequisites: two Women's Studies/Gender Studies courses and permission of coordinator.

WGS 491. INDEPENDENT STUDY**1-4 sh**

McMICHAEL





Directory & Appendices

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Gerald L. Francis, Ph.D.

Assistant Secretary and Assistant Treasurer

Leo M. Lambert, Ph.D.

President of the University

Terms Expiring May 31, 2006

Noel L. Allen '69, J.D.

Raleigh, N.C.

Barbara Day Bass '61

Richmond, Va.

Sherrill G. Hall '55

Greensboro, N.C.

Michele Skeens Hazel '78

Broad Run, Va.

Maurice N. Jennings Jr. '87

Greensboro, N.C.

Jack R. Lindley Sr. '56

Burlington, N.C.

Frank R. Lyon '71

New Canaan, Conn.

Adam G. O'Dell '04

Huntington, W.Va.

Richard L. Thompson '64, Ph.D.

Chapel Hill, N.C.

Terms Expiring May 31, 2007

Thomas E. Chandler

Burlington, N.C.

Mittie Crumpler Landi '96

Mebane, N.C.

Darris R. Means '05

Spartanburg, S.C.

Thomas E. Powell III, M.D.

Burlington, N.C.

Jeanne Swanner Robertson

Burlington, N.C.

The Rev. Ann Calvin Rogers-Witte

Phoenix, Ariz.

Zachary T. Walker III '60

Summerfield, N.C.

Terms Expiring May 31, 2008

Wallace L. Chandler '49

Richmond, Va.

John R. Danieli

Norwell, Mass.

The Hon. Jeanette W. Hyde

Raleigh, N.C.

Robert E. LaRose '66

Clifton, Va.

Donald A. Lopes

Providence, R.I.

James W. Maynard

Burlington, N.C.

James B. Powell, M.D.

Burlington, N.C.

William H. Smith

Burlington, N.C.

Mary Behrend Straub '82

Great Falls, Va.

Terms Expiring May 31, 2009

Robert T. Drakeford '86, J.D.

Charlotte, N.C.

Gail McMichael Drew

Durham, N.C.

Allen E. Gant Jr.

Burlington, N.C.

William N.P. Herbert '68, M.D.

Charlottesville, Va.

Victoria Silek Hunt

Burlington, N.C.

Mark T. Mahaffey

St. Petersburg, Fla.

Bob E. McKinnon '62.

Newton, N.C.

Warren G. Rhodes

Elon, N.C.

Robert A. Ward

Burlington, N.C.

Ex Officio Members

Faye G. Humphrey '61

President of the Southern Conference, UCC

The Rev. Stephen W. Camp, D.Min.

*Conference Minister, Southern Conference,
UCC*

Leo M. Lambert, Ph.D.

President of the University

Trustees Emeritus

Iris McEwen Coupland

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Edmund R. Gant

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The Honorable Elmon T. Gray

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Maurice N. Jennings Sr. '57

Ernest A. Koury Sr.

W.E. Love Jr. '48

The Rev. G. Melvin Palmer, Ed.D.

Janie Crumpton Evans Reece

William D. Rippy '43, M.D.

Samuel E. Scott, M.D.

J. Harold Smith

Royall H. Spence Jr. '42

The Rev. W. Millard Stevens '36

C. Max Ward '49

University of Wisconsin at Madison

Faculty, 2004-2005

Shaunta D. Adams, 2004

Assistant Professor; Collection Development Librarian

B.S., Mississippi State University; M.A.L.I.S. University of South Florida

Jimmie D. Agnew, 1985

Associate Professor of Science Education

B.A., George Washington University; M.S.S.T., Ph.D., The American University

Dan Albergotti, 2003

Assistant Professor of English

B.A., M.A., Clemson University; Ph.D., University of South Carolina; M.F.A., The University of North Carolina at Greensboro

Mark R. Albertson, 1978

Assistant Professor; Assistant to the Provost; University Registrar; Director of Winter Term and Summer College

B.B.A., Fort Lauderdale University

Amanda Allen, 2003

Assistant Professor of Sports Medicine

B.S., Ashland University; M.S., California University of Pennsylvania; Ph.D., Ohio University

James T. Allis Jr., 1995

Associate Professor of Mathematics; Chair, Department of Mathematics

B.S., State University of New York College of Arts and Sciences at Potsdam; M.A., Ph.D., University of South Carolina

James M. Allison Jr., 2001

Assistant Professor

B.A., Wake Forest University; M.S., The University of North Carolina at Greensboro

Kyle Altmann, 2003

Assistant Professor of Physics

B.A., Northwestern University; Ph.D.,

Janna Q. Anderson, 1999

Assistant Professor of Communications

B.S., Moorhead State University; M.A., The University of Memphis

Robert G. Anderson Jr., 1984

Associate Professor of Political Science

B.A., St. Andrews Presbyterian College; M.A., Ph.D. candidate, The American University

Addison Williams Andrews, 1997

Assistant Professor of Physical Therapy

B.S., M.S., The University of North Carolina at Chapel Hill

Andrew J. Angyal, 1976

Professor of English

B.A., Queens College, CUNY; M.A., Yale University; Ph.D., Duke University

Patrick S. Apke, 1996

Instructor in HHP; Assistant Football Coach

B.S., Carson-Newman College; M.S., Louisiana Tech University

Thomas Arcaro, 1985

Professor of Sociology

B.A., Ohio State University; M.S., Ph.D., Purdue University

Stephen P. Bailey, 1998

Associate Professor of Physical Therapy

B.S., Medical University of South Carolina; B.A., Western Maryland College; M.A., Wake Forest University; Ph.D., University of South Carolina

Martin H. Baker, 1980

Assistant Professor of Sports Medicine; Head Athletic Trainer

B.S., State University of New York at Brockport; M.S., Indiana State University

James L. Barbour, 1990

Associate Professor of Economics

B.B.A., M.A., Ph.D., University of Kentucky

Laurence A. Basirico, 1983

Professor of Sociology; Dean of International Programs

B.A., Hofstra University; M.A., Ph.D., State University of New York at Stony Brook

Patricia Bason, 1996

Assistant Professor of Education

B.S., Elon College; M.A.T. and Ed.D., The University of North Carolina at Chapel Hill

Grace S. Bass, 1994

Associate Professor of Education

B.A., Salem College; M.Ed., Memphis State University; Ed.D., Arizona State University

T. Nim Batchelor, 1990

Associate Professor of Philosophy

B.A., Texas Tech University; M.A., Ph.D., University of Nebraska

Robert C. Baxter, 1959

Associate Professor of Business Law; University Attorney

A.B., Elon College; J.D., Duke University

Dale J. Becherer, 1995

Associate Professor of Theatre Arts

B.A., University of California, Los Angeles; M.F.A., University of Illinois Urbana-Champaign

Barry B. Beedle, 1978

Professor of Physical Education/Sports Medicine

B.S., M.S., Mississippi State University; Ed.D., University of Mississippi

Chris P. Benton, 2001

Assistant Professor; Circulation Services Librarian

B.A., The University of North Carolina at Wilmington; M.L.S., North Carolina Central University

James R. Beuerle, 2000

Assistant Professor of Mathematics

B.S., M.A., Ph.D., State University of New York at Binghamton

Lisa P. Beuerle, 2000

Lecturer in Mathematics

B.A., M.A.T., M.A., State University of New York at Binghamton

Lynne Bisko, 2003

Assistant Professor; Nonprint Librarian

B.A., The College of William and Mary; M.L.S., Texas Woman's University

James S. Bissett, 1990

William J. Story Professor of History; Professor of History; Chair, Department of History

B.A., Oklahoma Baptist University; M.A., Western Carolina University; Ph.D., Duke University

Robert G. Blake, 1968

William S. Long Professor of English

A.B., Harvard University; M.A., Ph.D., Duke University

R. Lamar Bland, 1967

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B.A., Wake Forest University; M.A., The University of North Carolina at Chapel Hill; Ph.D., The University of North Carolina at Greensboro

Anne Bolin, 1988

Professor of Sociology

B.A., M.A., Ph.D., University of Colorado, Boulder

Constance L. Book, 1999

Associate Professor of Communications

B.A., Louisiana State University; M.Ed., Northwestern State University; Ph.D., University of Georgia at Athens

Cherie L. Bower, 2001

Adjunct Assistant Professor of Dance

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Randall H. Bowman, 2000

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K. Wilhelmina Boyd, 1987

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B.A., Bennett College; M.A., North
Carolina Central University

Barbara G. Boyette, 2001

*Assistant Professor; Assistant Director of
Athletics; Director of Academic Progress*
B.S., Washington University; M.S., Miami
University; Ph.D., University of Maryland

Kevin B. Boyle, 1992

Professor of English
B.A., University of Pennsylvania; M.A.,
Boston University; M.F.A., Ph.D.,
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Kyndall Lane Boyle, 1998

Assistant Professor of Physical Therapy
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Hill

Barry A. Bradberry, 1975

*Assistant Professor; Associate Dean of
Admissions and Financial Planning*
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M.Ed., The University of North Carolina
at Greensboro

David A. Bragg, 1970

Professor of Music; Chair, Department of Music
B.S., Concord College; M.M.E., Ph.D.,
Florida State University

Julia Brandon, 2002

Assistant Professor of Psychology
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North Carolina State University

Stephen E. Braye, 1989

Professor of English; Director of General Studies
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York at Binghamton

James O. Brown, 1994

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Janie P. Brown, 1967

*Watts-Thompson Professor; Professor of Physical
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Chalmers S. Brumbaugh, 1986

*Professor of Political Science; Chair, Department
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Pamela P. Brumbaugh, 1986

*Assistant Professor; Director of Experiential
Education*
B.S., College of Wooster; M.S., University
of Wisconsin

John J. Burbridge Jr., 1996

*Professor of Business Administration; Dean, The
Martha and Spencer Love School of Business*
B.S.I.E., M.S.I.E., Ph.D., Lehigh University

Kelli S. Burns, 2002

Assistant Professor of Communications
B.A., Vanderbilt University; M.S., Middle
Tennessee State University; Ph.D.,
University of Florida

William J. Burpitt, 2002

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Lee Bush, 2004

Assistant Professor of Communications
B.A., Missouri Western State College; M.S.,
Northwestern University

Ann J. Cahill, 1998

Associate Professor of Philosophy
B.A., College of the Holy Cross; Ph.D.,
State University of New York at Stony
Brook

Michael L. Calhoun, 1985

Professor of Health Education
B.S., Hardin-Simmons University; M.S.,
Ed.D., Brigham Young University

Gregory D. Calone, 2002

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Health Services

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Instructor in Accounting
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Institute and State University

Michael Carignan, 2002

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University

Lisa Carloye, 1997

Associate Professor of Biology
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Cary Wayne Caruso, 2002

Assistant Professor of Physics
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Anne C. Cassebaum, 1985

Associate Professor of English
B.A., Cornell University; M.A., Columbia
University

Arthur D. Cassill, 2002

*Professor of Accounting; Chair, Department of
Accounting and Finance*
B.S., M.B.A., Eastern Kentucky University;
Ph.D., The University of Tennessee at
Knoxville

Chandana Chakrabarti, 1990

Associate Professor of Religious Studies
B.A., M.A., Calcutta University; Ph.D.,
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David D. Childers, 2002

Adjunct Instructor in Communications
B.A., Saginaw State University; M.A.,
Central Michigan University

Susan A. Chinworth, 1997

Associate Professor of Physical Therapy
B.S., Washington University; M.S.,
University of North Texas; Ph.D., Texas
Woman's University

Jeffrey W. Clark, (1988*) 1992

Professor of Mathematics
B.S., M.S., Ph.D., Yale University

Matthew W. Clark, 2000

Associate Professor of Biology
B.S., Johnson C. Smith University; M.S.,
North Carolina State University; Ph.D.,
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David L. Cockrell, 1994

Adjunct Instructor of History
B.A., The University of North Carolina at
Charlotte; M.A., The University of North
Carolina at Chapel Hill

Jeffrey Coker, 2004

Assistant Professor of Biology
B.S., Davidson College; M.Ed., Ph.D.,
North Carolina State University

M. Jeffrey Colbert, 1990

Adjunct Instructor in Political Science
B.A., M.P.A., The University of North
Carolina at Greensboro

Crista Lynn Coles, 2000

*A.L. Hook Professor of Mathematics; Assistant
Professor of Mathematics*
B.S., Allegheny College; M.S., Ph.D.,
University of Cincinnati

Megan Conklin, 2002

Assistant Professor of Computing Sciences
B.A., The College of William and Mary;
M.S., Ph.D., Nova Southeastern University

Teresa Conner-Kerr, 2003

*Associate Professor of Physical Therapy
Education*
B.S., Queens College; Ph.D., B.S.P.T., East
Carolina University

David A. Copeland, 2001

A.J. Fletcher Professor; Associate Professor of Communications
B.A., Wake Forest University; M. Div., Th.M., Southeastern Baptist Theological Seminary; Ph.D., The University of North Carolina at Chapel Hill

Polly Butler Cornelius, 2003

Lecturer in Music
B.M., Converse College; M.M., The University of North Carolina at Greensboro

Kathryn T. Cort, 1999

Assistant Professor of Business Administration
B.S., M.A., Ohio State University; M.B.A., Ph.D., Kent State University

Vic Costello, 2001

Associate Professor of Communications
B.S., Western Carolina University; M.A., Regent University; Ph.D., The University of Tennessee at Knoxville

Christine Cotton, 2004

Instructor in Spanish
B.A., University of Virginia; M.A., University of Michigan

Eleanor Lee Cowen, 2004

Lecturer in Communications
B.A., University of Georgia; M.A.C., Georgia State University

Patty J. Cox, 1987

Assistant Professor of Accounting
B.S., M.S., The University of North Carolina at Greensboro; C.P.A.

Glenda W. Crawford, 1989

Professor of Education; Chair, Department of Education
B.A., M.Ed., Ed.D., The University of North Carolina at Greensboro

Paul Crenshaw, 2004

Assistant Professor of English
B.F.A., Arkansas Tech University; MFA, The University of North Carolina at Greensboro

Anthony W. Crider, 2002

Assistant Professor of Physics
B.S., Bowling Green State University; M.S., Ph.D., Rice University

David M. Crowe Jr., 1977

Professor of History
B.A., Southeastern Louisiana College; M.A., Mississippi State University; Ph.D., University of Georgia

Bernard J. Curry, 1991

Assistant Professor of Sociology/Education
B.A., M.S., North Carolina State University

Richard D'Amato, 1999

Associate Professor of Engineering
B.S., University of Florida; M.S., University of Miami; Ph.D., University of South Carolina

J. Earl Danieley, 1946

Thomas E. Powell Jr. Professor; Professor of Chemistry; President Emeritus
A.B., Elon College; M.A., Ph.D., The University of North Carolina at Chapel Hill; Postdoctoral Study, The Johns Hopkins University; Sc.D., Catawba College; LL.D., Campbell University

Jayoti Das, 1996

Associate Professor of Economics
B.Sc./M.Sc., Presidency College, Calcutta, India; M.A., Ph.D., University of Cincinnati

Pranab K. Das, 1993

Associate Professor of Physics; Chair, Department of Physics
B.A., Reed College; Ph.D., University of Texas at Austin

Joyce A. Davis, 1997

Associate Professor of Physical Education
B.S., Mississippi University for Women; M.S., University of Northern Iowa; Ph.D., Temple University

Mayte de Lama, 2003

Assistant Professor of Spanish
B.A., University of Vigo; M.A., Ph.D., University of Kentucky

Stephen B. DeLoach, 1996

Associate Professor of Economics

B.S., University of Nebraska; M.A., Ph.D.,
Michigan State University

Brian Digre, 1990

Professor of History

B.A., University of California, Berkeley;
M.A., Ph.D., George Washington
University

F. Gerald Dillashaw, 1992

*Professor of Education; Dean, School of
Education*

B.S., Furman University; M.A.T., Converse
College; Ed.D., University of Georgia

Cassandra DiRienzo, 2002

Assistant Professor of Economics

B.A., Ohio State University; M.E., North
Carolina State University

Haidee Dollak, 2001

Adjunct University Accompanist

B.M., The University of North Carolina at
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M. James Donathan, 1994

*Assistant Professor; Associate Director of
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B.A., North Carolina State University;
M.A., Appalachian State University

Kay N. Drake, 2001

Assistant Professor of Education

B.S., East Carolina University; M.Ed.,
Ph.D., The University of North Carolina at
Chapel Hill

James P. Drummond, 1987

*Associate Professor of Leisure and Sport
Management; Chair, Department of Leisure and
Sport Management*

B.S., M.R.P.A., Clemson University; Ed.D.,
Virginia Polytechnic Institute and State
University

Chinedu O. Eke, 2003

Assistant Professor of Communications

B.A., M.A., Baylor University; Ph.D., The
Pennsylvania State University at University
Park

R. Clyde Ellis, 1995

Associate Professor of History

B.A., Lenoir-Rhyne College; M.A., The
University of North Carolina at
Greensboro; Ph.D., Oklahoma State

Thomas R. Erdmann, 1989

Professor of Music

B.M., B.M.E., State University of New
York at Fredonia; M.M., Illinois State
University; D.M.A., University of Illinois

Judith Esposito, 2003

Assistant Professor of Human Services

B.A., St. Andrews Presbyterian College;
M.A., Appalachian State University; Ph.D.,
Virginia Polytechnic Institute and State
University

Cynthia D. Fair, 1999

Assistant Professor of Human Services

B.A., Davidson College; M.S.W., M.P.H.,
Dr.P.H., The University of North Carolina
at Chapel Hill

Michael D. Fels, 2002

Assistant Professor of Art

B.F.A., Michigan State University; M.F.A.,
Pennsylvania State University

Mary Jo Festle, 1993

*Associate Professor of History; Director of
Honors Program*

B.A., Knox College; M.A., Ph.D., The
University of North Carolina at Chapel
Hill

Victoria Fischer Faw, 1990

Professor of Music

B.M., Centenary College of Louisiana;
M.M., University of Texas at Austin; M.A.,
The University of North Carolina at
Chapel Hill; D.M.A., University of Texas at
Austin

Michael Flannery, 2004

Assistant Professor of Performing Arts

B.S., Wake Forest University; M.F.A., The
University of North Carolina at
Greensboro

Stephen E. Folger, 1998

Associate Professor of Physical Therapy
B.S., Ithaca College; Ph.D., The University
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Katherine J. Follett, 2001

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Dianne Ford, 2003

*Assistant Professor; Coordinator of Serials and
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Greensboro

Martin Fowler, 2004

Assistant Professor of Philosophy
B.A., The University of North Carolina at
Chapel Hill; M.A., University of Colorado;
Ph.D., State University of New York

J. Mark Fox, 1990

Instructor in Communications
B.A., M.A., The University of North
Carolina at Chapel Hill; M.Div., Luther
Rice Seminary

Gerald L. Francis, 1974

*Professor of Mathematics and Computing
Sciences; Provost/Vice President for Academic
Affairs*
B.S., M.A., Appalachian State University;
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Alec C. French, 1993

Adjunct Instructor in Physical Education
B.S., East Carolina University; M.Ed., Old
Dominion University

Jane Freund, 2003

*Assistant Professor of Physical Therapy
Education*
B.S., East Stroudsburg University of
Pennsylvania; M.P.T., Baylor University;
M.S., The University of North Carolina at
Chapel Hill

Paul M. Fromson, 1986

Associate Professor of Psychology
B.A., Amherst College; M.S., Ph.D.,
George Peabody College for Teachers at
Vanderbilt University

Michael R. Frontani, 1999

Assistant Professor of Communications
B.A., M.A., Ohio State University; M.A.,
University of Southern California; Ph.D.,
Ohio University

Christopher D. Fulkerson, 1982

*Assistant Professor of Communications;
Assistant Vice President of Academic and
Campus Technologies*
B.A., St. John Fisher College; M.F.A., The
University of North Carolina at
Greensboro

Stephen A. Futrell, 1999

Assistant Professor of Music
B.M.E., M.M.E., Louisiana State
University; D.M.A., University of Missouri
at Kansas City

Thomas Kenneth Gaither, 2004

Assistant Professor of Communications
B.A., M.F.A., University of Pittsburgh;
Ph.D., The University of North Carolina at
Chapel Hill

Kathleen K. Gallucci, 1984

Assistant Professor of Biology
B.S., Le Moyne College; M.S., The
University of North Carolina at Chapel
Hill

Richard P. Gang, 2001

Assistant Professor of Theatre Arts
B.S., New York University; M.S., Emerson
College; M.F.A., Rutgers University

Betty L. Garrison, 2000

*Assistant Professor; Reference-Business
Librarian*
B.A., Meredith College; M.S.L.S., The
University of North Carolina at Chapel
Hill

Mathew Gendle, 2003

Assistant Professor of Psychology
B.S., Hobart College; Ph.D., Cornell University

Gerald M. Gibson, (1979*), 1988

Assistant Professor of Communications
B.A., North Carolina State University;
M.A., The University of North Carolina at Greensboro

Russell B. Gill, 1976

Maude Sharpe Powell Professor of English;
Professor of English
A.B., College of William and Mary; M.A., Ph.D., Harvard University

Jessica J. Gisclair, 2000

Assistant Professor of Communications
B.A., Nicholls State University; M.S., University of Southern Mississippi; J.D., University of Toledo

Heidi Glaesel Frontani, 1998

Associate Professor of Geography
B.S., Cornell University; M.S., Ph.D., University of Wisconsin at Madison

Douglas W. Glass, 2000

Instructor in Business Administration
B.S.I.E., Tennessee Tech University;
M.B.A., Elon College

Joseph Scott Glass, 2002

Assistant Professor of Human Services
B.A., North Carolina State University;
M.Ed., East Carolina University; Ph.D., The University of North Carolina at Greensboro

E. Eugene Gooch, 1988

Professor of Chemistry
B.S., Carson-Newman; Ph.D., University of Tennessee at Knoxville

Barbara L. Gordon, 1987

Associate Professor of English
B.A., State University College at Oswego;
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Don A. Grady, 1985

Associate Professor of Communications; Chair, School of Communications
B.A., North Carolina State University;
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Seena A. Granowsky, 1975

Professor of Psychology and Human Services
B.S., Tufts University; M.S., Vassar College;
Ed.D., Duke University

Thomas D. Green, 1990

Professor of Psychology; Chair, Department of Psychology
B.S., M.S., East Tennessee State University;
Ph.D., University of Nebraska

Eugene B. Grimley, 1987

T.E. Powell Jr. Professor of Chemistry; Chair, Department of Chemistry
B.A., Olivet College; Ph.D., University of Iowa

John Guiniven, 2003

Associate Professor of Communications
B.A., LaSalle College; M.S., The American University; MGA, University of Maryland;
Ph.D., University of Maryland at College Park

Norris W. Gunby, 2004

Assistant Professor of Business Administration
B.A., Paine College; M.H.A., Tulane University; Ph.D., University of Alabama-Birmingham

Gregory J. Haenel, 1998

Associate Professor of Biology; Rawls Professor of Undergraduate Research
B.S., Ohio University; Ph.D., The University of Pennsylvania

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Bradley J. Hamm, (1989*), 1995

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Associate Dean of the School of
Communications
 B.A., Catawba College; M.A., The
 University of South Carolina; Ph.D., The
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 Hill

Juliane Hammer, 2003

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 M.A., Ph.D., Humboldt University of
 Berlin

Sirena Hargove-Leak, 2004

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 B.S., M.S., North Carolina A & T State
 University; Ph.D., University of South
 Carolina

E. Franklin Harris, 1967

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 A.B., Elon College; M.A., Wake Forest
 University; Ph.D., The University of North
 Carolina at Chapel Hill

Nancy E. Harris, 1981

Associate Professor of Biology; Associate Dean of
the College of Arts and Sciences
 B.S., The University of North Carolina at
 Chapel Hill; B.S., Ph.D., North Carolina
 State University

Rosemary A. Haskell, 1985

Professor of English
 B.A., University of Durham, England;
 M.A., Clark University; Ph.D., The
 University of North Carolina at Chapel
 Hill

Kenneth J. Hassell, 1990

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Art
 B.E.A., M.F.A., University of Wisconsin

Anthony Earl Hatcher, 2002

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 Carolina at Greensboro; Ph.D., The
 University of North Carolina at Chapel
 Hill

Richard C. Haworth, 1974

Professor of Mathematics
 B.S., Wake Forest University; M.A.T., Duke
 University; M.A., Appalachian State
 University; Ph.D., Virginia Polytechnic
 Institute and State University

Bryan Hedrick, 2004

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Lynn R. Heinrichs, 2000

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 Champaign; Ed.D., Northern Illinois
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Judy S. Henricks, 1980

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 University of North Carolina at
 Greensboro

Thomas S. Henricks, 1977

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Kate D. Hickey, 1996

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Groves Belk Library
 B.A., Swarthmore College; M.S.L.S.,
 Clarion University of Pennsylvania

Vicki V. Hightower, (1984*), 1986

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Adjunct Instructor in Music
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B.S., Ferrum College; M.Div., Wesley Theological Seminary; M.Phil., Ph.D., Drew University

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Wyoming

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Frances Ward-Johnson , 2003

Associate Professor of Communications
B.A., M.A., North Carolina Agricultural and Technical State University; Ph.D., The University of North Carolina at Chapel Hill

Janet L. Warman, 1990

Professor of English
B.A., Emory and Henry College; M.Ed., Virginia Commonwealth University; M.A., Ph.D., University of Tennessee

Beth Warner, 2003

Assistant Professor of Human Services
B.A., Malone College; M.P.A., Ph.D., The University of Akron

Suzan Wasik, 2003

Assistant Professor of Human Services
B.A., B.A., University of Central Florida; M.Ed., Winthrop University; Ph.D., The University of North Carolina at Greensboro

Rexford A. Waters, 1990

Assistant Professor of HHP; Assistant Dean of Student Affairs
B.S., M.S., Virginia Polytechnic Institute and State University

Linda T. Weavil, 1973

Professor of Business Administration
B.S., M.A., East Carolina University; Ed.D., The University of North Carolina at Greensboro

William M. Webb, 1996

Assistant Professor of Performing Arts; Technical Director of the Center for the Arts
B.A., Alfred University; M.F.A., North Carolina School of the Arts

Paul S. Weller, 1997

Science Lab Manager in Chemistry
B.S., Lenoir-Rhyne College; M.S., The University of North Carolina at Greensboro

Jane C. Wellford, 1976

Associate Professor of Performing Arts
B.F.A., St. Andrews Presbyterian College; M.F.A., The University of North Carolina at Greensboro

Laura E. West, 1993

Assistant Professor; Coordinator of Serials Government Documents
B.A., Hamilton College; M.L.S., The University of North Carolina at Chapel Hill

Anthony Weston, 1992

Professor of Philosophy; Chair, Department of Philosophy
B.A., Macalester College; M.A., Ph.D., University of Michigan

Charles S. Whiffen, 1990

Adjunct Instructor in Mathematics
B.S., West Virginia Wesleyan College; M.S., Virginia Tech

Alan J. White, (1964*), 1974

Professor of HHP; Athletic Director
B.S., Wake Forest University; M.Ed., The University of North Carolina at Chapel Hill; Ed.D., Mississippi State University

Gerald O. Whittington, 1992

Assistant Professor; Vice President for Business, Finance and Technology
B.A., The University of North Carolina at Chapel Hill; M.B.A., Duke University

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Elon Pre-doctoral Fellow; Instructor in Human Services
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Jo Watts Williams, 1969

Professor of Education; Special Assistant to the President
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Mary Wise, 1997

Associate Professor; Assistant Vice President for Academic Affairs
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Beth Wright, 2004

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B.S., Union University; M.A., Memphis State University; Ph.D., North Carolina State University

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Honglin Xiao, 2002

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B.S., Yunnan University; M.S., Guizhou Normal University

Alexander Yap, 2002

Assistant Professor of Business Administration
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H. Jamane Yeager, 2000

Assistant Professor; Reference-Electronic Access Librarian
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Professor of Political Science
A.B., M.A., Ph.D., The University of North Carolina at Chapel Hill

Visiting Faculty, 2004-05

Liere Marquinez Truchuelo, 2004

Visiting Professor of Foreign Languages
B.A. in Translation and Interpretation, University of Valladolid; M. A., Alava, Spain

Irene Lacasa Montes, (2003*) 2005

Visiting Professor of Foreign Languages
B.A. in English Philology, University of Valladolid, Spain

Tao Wang, 2004

Visiting Professor of Foreign Languages
B.A. in English, Southeast University, Nanjing, China; Graduate Diploma in Economics, The Political and Administrative University of Jiangsu, Nanjing, China

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Admissions Counselor

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Coordinator of Office Operations/Bookkeeper*

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Coordinator of the Welcome Center

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Datatel Administrator for Admissions and Financial Planning

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Financial Planning Specialist

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Athletic Affairs

Alan J. White, B.S., M.Ed., Ed.D.

Director of Athletics

R. Clay Hassard, B.S., M.B.A.

Senior Associate Director of Athletics for Compliance, Campus Relations

Kyle D. Wills, A.B.

Associate Director of Athletics for Business, Operations

Faith Shearer, B.A., M.S.

Assistant Director of Athletics, Senior Woman Administrator

Matt Eviston, B.S.

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Assistant Director of Athletics for Academic Progress, Life Skills Development

Martin H. Baker, B.S., M.S., A.T.C.

Director of Athletic Training Services

Lindsey Goodman, B.S.

Assistant Director of Athletics for Marketing, Promotions, Home Game Management

Jeffrey P. Blythe, B.A., M.A.

Assistant Athletics Business Manager/Ticket Manager

Amanda M. Allen, B.S., M.S., Ph.D., A.T.C.

Assistant Athletic Trainer

Ronald E. Antoine, B.S., M.Ed.

Assistant Football Coach

DeAnne D. Brooks, B.A., M.Ed.

Head Women's Track Coach

Shane Burnham, B.S.

Assistant Football Coach

Gregory D. Calone, B.S., M.S., A.T.C., CSCS

Assistant Athletic Trainer

Keith Caton, B.S., M.S.

Head Strength and Conditioning Coach

Louis Clyburn, B.A.

Assistant Football Coach

Mark R. Collins, B.S.

Assistant Football Coach

Chris Dockrill, B.S.

Head Women's Golf Coach

Megan M. Donald, B.A.

Assistant Director of Sports Information

James J. Fitzpatrick, B.A.

Assistant Men's Basketball Coach

Paul M. Hamilton, B.S., M.Ed.

Head Football Coach

Michelle D. Katkowski, B.S., M.Ed.

Assistant Coach for Women's Basketball

Michael D. Kennedy, B.S., M.S.

Head Baseball Coach

Stacey Lange, B.A.

Assistant Softball Coach

Ann Lashley, B.S., M.S.

Associate Head Coach for Women's Basketball

Michael Leonard, B.A.

Head Men's Tennis Coach

Jennifer E. Mackenzie, B.S., M.S., A.T.C.

Assistant Athletic Trainer

Megan McCollum, B.S., M.S.

Assistant Strength and Conditioning Coach

T. William Morningstar, A.B., M.Ed.

Director of Golf, Men's Golf Coach

Mark Myers, B.S., M.Ed., A.T.C.

Assistant Athletic Trainer

Ernest L. Nestor, B.S., M.S.

Head Men's Basketball Coach

Brenda J. Paul, B.S., M.Ed.

Head Women's Basketball Coach

Elizabeth Perry, B.S., M.S.

Head Women's Tennis Coach

Darren L. Powell, B.S.

Head Coach Men's Soccer

Michael S. Preston, B.A.

Assistant Men's Basketball Coach

Patricia Raduenz, B.S.

Head Softball Coach

Christopher M. Rash, B.A.

Assistant Director of Sports Information

Jackie Sgambati, B.S.

Head Coach for Men's and Women's Cross Country

Jon D. Shields, B.S.

Assistant Football Coach

Greg Starbuck, B.S.

Assistant Baseball Coach

Dale Steele, B.S., M.A.

Assistant Head Football Coach

Susan W. Stevens, A.B., M.S., A.T.C..

Assistant Athletic Trainer

Mary Tendler, B.S.

Head Volleyball Coach

Nicholas E. Toth III, B.A., M.S.R.S.S.

Assistant Football Coach

Dwayne Turner

Equipment and Fields Manager

Christine Webb, B.S.

Head Women's Soccer Coach

Chad Willis, B.S.

Assistant Volleyball Coach

Lou F. Harper

Secretary to the Director of Athletics

Stephanie U. Hicks

Secretary to the Athletics Department

Linda H. Somers

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Business, Finance and Technology

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Vice President for Business, Finance and Technology

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Valerie P. Cheek, B.S.

Administrative Assistant

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Secretary

Accounting

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Director of Accounting

Andrea F. Edwards, B.S., M.B.A.

Accountant

Angela M. Gilmore, B.S., M.B.A.

Accountant

Karen L. Hughes

Student Account Analyst

Marilyn E. Collins

Student Account Analyst

Kay M. Riddle, B.A.

Student Account Specialist

Joyce Pepper, B.S.

Manager Payroll/Accounts Payable

Kathy O. Beal

Payroll Specialist

Carolyn W. Moore

Accounts Payable Analyst

Judy Bowes

Accounts Payable Analyst

Jay Harper, B.S.

Bursar

Brenda Douglas, A.B.

Assistant Bursar

Gail B. Key

Administrative Assistant/Accounts Payable Analyst

Jane S. Deaton, B.S., C.P.A.

Comptroller

Enetta "Renie" Thompson

Payroll/Accounts Payable Assistant

Auxiliary Services

Vickie L. Somers, B.S.

Director of Auxiliary Services

Nancy V. Isley

Assistant to the Director of Auxilliary Services

Kathy M. Scarborough, B.A.

Campus Shop Manager

Chris Bunting

Campus Shop Assistant Manager/Textbook Manager

Jeff Gazda, B.S.

Resident District Manager, Campus Dining Services

Jon Maney

Director of Operations, Campus Dining Services

Charles H. Sparks Jr., B.A., C.M.M.

Mail Services Manager

Sharon R. Justice

Mail Services Assistant Manager

Janet L. Hardie

Mail Services Clerk

Kathy Whitt

Mail Services Clerk

Martin V. Latta

Mail Services Clerk

Cedrick Boseman

Mail Services Clerk

Tommy Jones

Mail Services Clerk

James McCall

Print Shop Manager

Michael D. Scott

Print Shop Clerk

Christopher Miles

Print Shop Clerk

Construction Management

Neil F. Bromilow, B.S., M.S.A.E., P.E.

Director of Construction Management

KerryAnn L. Matthew, B.S., M.B.A.

Project Manager

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Human Resources

Ronald A. Klepcyk, B.S., M.Ed.

Director of Human Resources

Stephanie L. Page, PHR

Assistant Director of Human Resources

Mary M. Santiago, B.A., M.A.

Professional Development Specialist

Gloria Thompson

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Secretary

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Secretary

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Computer Science/Mathematics/Science Liaison

Roger Gant

Instructional Support Liaison

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Multimedia Developer

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Office Manager

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Coordinator of the elite Program

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William Brown

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Christie Dickerman, B.A.

Office Technician

Nicholas Schroeder, B.S.

Media Technician

Jim Yowell, B.S.

Media Technician

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Senior Audio Producer

Jeff James, A.A.S., B.A.

Chief Engineer

Linda M. Lashendock, B.S.

Coordinator, Elon Television Services

Jason E. McMerty, B.A.

Senior Video Producer

Marion Aitcheson, A.A.

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Anthony E. Bennett

PC Support Software Specialist

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Michelle Woods, A+ Certification

Help Desk Associate

Chris Spires

Help Desk Associate

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Richard C. Keziah, A.A.S.

Manager, Physical Plant Services

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Darrell Gantt

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Campus Police Officer

Christopher Sweat

Campus Police Officer

Darla White

Campus Police Officer

Brad Wilson

Campus Police Officer

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Allen Poe

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Security Officer, Traffic Coordinator

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Campus Security Officer

Bryan Boyd

Campus Security Officer

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Campus Security Officer

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Campus Security Officer

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Campus Security Officer

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Campus Security Officer

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Campus Security Officer

Steve Russell

Campus Security Officer

Jason Vincent

Campus Security Officer

Brad Young

Campus Security Officer

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Shuttle Driver

Carl Bodsford
Shuttle Driver

David Cheek
Shuttle Driver

Billy Crayton
Shuttle Driver

Ronnie Hensley
Tram Driver

Wayne Higgins
Tram Driver

William Huff
Tram Driver

Bobby Morris
Shuttle Driver

Jerry Ray
Tram Driver

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Dana Justice
Dispatcher

Carol Straughan
Dispatcher

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ALAMANCE

Title II Report on Teacher Education

April 2005

Overview of the Institution

Elon University is a comprehensive, coeducational, residential college located in the heart of the Piedmont near Burlington, North Carolina. Founded in 1889, Elon is the third largest of North Carolina's 36 private colleges and universities.

Elon offers its 4,740 students a dynamic academic program featuring a solid liberal arts education and excellent professional programs in business, communications and education. Elon also is a national leader in experiential education. Students regularly connect knowledge with experience in programs such as study abroad, internships, research, service learning and leadership. With 48 undergraduate majors, an average class size of 22, a 15-1 student-faculty ratio and world-class facilities, Elon provides an ideal learning environment where students are encouraged to investigate for themselves and become independent learners. Elon faculty are devoted to teaching and are accessible to their students. Eighty-five percent hold the highest degrees in their fields.

The 2004 National Survey of Student Engagement found that Elon is among the nation's top schools in five benchmarks of academic excellence — level of academic challenge, active learning, interaction with faculty, educational opportunities outside the classroom and supportive campus environment. In addition, Elon ranked in 6th place out of 131 Southern regional universities in the 2005 U.S. News & World Report's America's Best Colleges rankings.

Elon offers students exciting opportunities and academic challenge with six selective, four-year Fellows programs. They are Honors Fellows, Science Fellows, Journalism and Communications Fellows, Leadership Fellows, Jefferson-Pilot Business Fellows and the North Carolina Teaching Fellows Program.

Outside the classroom, Elon students have many opportunities to put their learning into practice and grow personally. There are more than 150 student organizations, including academic honor societies, intramural and club sports, Greek organizations, student media and performing ensembles. Elon also has 16 teams that compete in NCAA Division I (I-AA football) and the Southern Conference.

Special Characteristics

Elon's low student-faculty ratio of 15-1 gives teacher education students the advising, academic challenge and support services they need to become successful teachers. The program offers students the opportunity to begin field experiences as early as spring semester of the freshman year, enabling students to make an informed decision about entering teaching early in their college career. This early field experience is followed by more extensive field experiences as part of methods courses, which come after students have been formally admitted to the program. Thus, the Elon teacher education student enters the student teaching semester with two or three semesters of school experience.

Elon University is one of the fourteen campuses participating in the North Carolina Teaching Fellows Program. Elon is one of only two private institutions in North Carolina selected to offer this prestigious program.

Supplemental Descriptive Information to Provide a Richer Picture of the Efforts to Provide High Quality Teacher Education

Elon University works closely with public schools through a variety of activities, including program development, grant writing, team teaching and service on committees. A new initiative is the Office of School Outreach Programs. The mission of this program is to provide ongoing support efforts to provide assistance to teachers, students, parents and administrators in the local schools. Current projects in which this office is involved include assisting "at-risk" public schools and creating a Professional Development Academy which is offering professional development seminars, workshops and courses to beginning, lateral entry and career teachers. The School Outreach office has created a support system for National Board Certification process for local teachers; provided instructors for AIG licensure coursework for selected local teachers; and sought grants and business industry sponsorships for collaborative projects with local public schools.

Each year two Elon University teacher education faculty members spend a semester in the public schools, working directly with a teacher in his or her classroom. Public school teachers teach classes at Elon; and teachers and administrators serve as guest lecturers in classes and the student teaching seminar. Representatives from the Alamance-Burlington Schools serve as voting members on the Teacher Education Committee and the M.Ed. Advisory Committee assisting with program design and revision. Public school teachers served on the Technology Portfolio review teams to assess the technology portfolios developed by student teachers. Elon is a member of the Piedmont Alliance with area IHEs, the Alamance-Burlington Schools, Guilford County Schools and Winston-Salem Forsyth County LEAs. The Alliance collaborates on issues related to student teaching and other practicum experiences and legislative issues affecting teachers. Elon has made college facilities available rent-free for the Alamance-Burlington Schools for staff development programs. Also, two teachers from the Alamance-Burlington Schools served on the Elon committee to select the recipient of Elon's highest teaching award

INSTITUTIONAL REPORT CARD

Pass-Rate Data: Regular Teacher Preparation Program

Academic Year: 2003-2004

Testing Period: 10/03-9/04

Number of Program Completers: 101

Specialty Area/ Professional Knowledge	Number of Students Taking Test	Percent of Students Passing Test
Biology (9-12)	0	*
Chemistry (9-12)	0	*
Elementary Education (K-6)	51	98%
English (9-12)	8	*
French (K-12)	0	*
Health Education (K-12)	0	*

Specialty Area/ Professional Knowledge	Number of Students Taking Test	Percent of Students Passing Test
Language Arts (6-8)	3	*
Mathematics (6-8)	2	*
Mathematics (9-12)	4	*
Music (K-12)	4	*
Physical Education (K-12)	2	*
Physics (9-12)	0	*
Science (6-8)	1	*
Science (9-12)	0	*
Social Studies (6-8)	3	*
Social Studies (9-12)	5	*
Spanish (K-12)	1	*
Teaching Learning Disabled (K-12)	7	*
TOTAL	87	97

**Individual test scores not reported if fewer than 10; TOTAL includes all test takers.*

Section II. Program Information

Number of student in the regular teacher education preparation program

Total number of students admitted into teacher preparation, all specializations,
in academic year 2003-2004

288

Information about supervised student teaching

Number of students in supervised student teaching in academic year 2003-2004

90

Number of faculty members who supervised student teachers:

(1) Full-time faculty in professional education

3

(2) Part-time faculty in professional education, but full-time in the institution

5

(3) Part-time faculty in professional education, not otherwise employed
by the institution

9

Total faculty student teaching supervisors

17

Student teacher/ faculty ratio

5.3/1

The average number of student teaching hours per week required

40

The total number of weeks of supervised student teaching required

14

Average total number of student teaching hours required

560

Information about state approval or accreditation of teacher preparation programs

Is your teacher education program currently approved or accredited by the state?

Yes

Is your teacher preparation program currently under a designation
as low-performing by the state (as per Section 208(a) of the HEA of 1998)?

No

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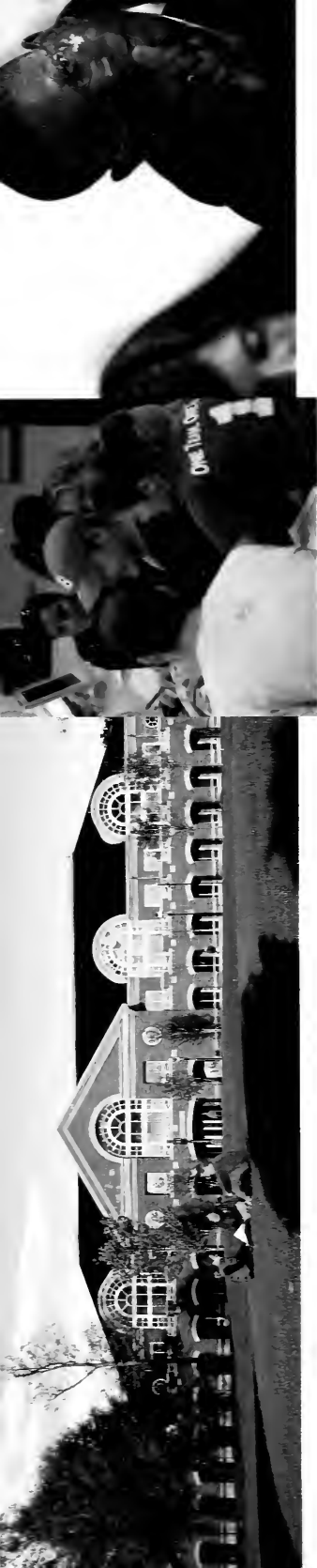
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